

	<p>School of Arts & Science SOCIAL SCIENCES DEPARTMENT</p> <p>GEOG 216-001 Quantitative Methods 2012W</p>
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COURSE OUTLINE

The Approved Course Description is available on the web @ _____

Ω Please note: this outline will be electronically stored for five (5) years only.
It is strongly recommended students keep this outline for your records.

1. Instructor Information

(a)	Instructor:	Trisha Jarrett
(b)	Office Hours:	TBA
(c)	Location:	Fisher 340A
(d)	Phone:	370-3378
(e)	Email:	jarrett@camosun.bc.ca
(f)	Website:	http://online.camosun.ca/

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 SPSS software.

3. Required Materials

Textbook: Michael Haan. *An Introduction to Statistics for Canadian Social Scientists*. 2009. Toronto: Oxford University Press.

Unfortunately, as this is a new text this year, there will be no used copies available at the bookstore. I have requested that a copy of the textbook be placed on reserve in the library for your use.

Lab Materials:

A lab manual will be available for purchase in the bookstore. In the event of changes or shortages, I will make lab materials available the class before the lab session. If you are not at lecture you are responsible for getting a copy of the lab before the lab begins.

4. Course Content and Schedule

Course Schedule: Updated January 9, 2012 (Subject to change at the discretion of the instructor):

Date	Week	Lecture (Monday)	Lab (Wednesday)	Reading
Jan 9, 11	1	Introduction to Quantitative Methods	Lab Intro/Lecture	Chapter 1
Jan 16, 18	2	Intro to Geographic Data & Statistics	Lab 0: SPSS Tutorial	Chapter 2, 3
Jan 23, 25	3	Measures of Central Tendency	Lab 1: SPSS & Student survey	Chapter 5, 6,7
Jan 30, Feb 1	4	Descriptive Spatial Stats	Lab 2: Descriptive Spatial Stats	
Feb 6, 8	5	Probability	Lab 3: Probability	Chapter 4,5
Feb 13, 15	6	Sampling and Statistical Estimation	Lab 4: Statistical Estimation	Chapter 8,9
Feb 20, 22	7	Midterm Exam	No Lab this week	
Feb 27, 29	8	Hypothesis Testing	Lab 5: Inferential Stats	Chapter 10
Mar 5, 7	9	Non-parametric Tests	Lab 6 – Non-parametric Tests	Chapters 12, 13, 15
Mar 12, 14	10	Parametric Tests	Lab 7: Difference of Means, One and Two Sample tests	Chapter 11
Mar 19, 21	11	Inferential Spatial Statistics	Lab 8: Inferential Spatial Analysis: Join Counts	
Mar 26, 28	12	Correlation	Lab 9: Correlation	Chapter 12
Apr 2, 4	13	Linear Regression	Lab 10: Regression	Chapter 16
Apr 9, 11	14	No Class - Holiday	Lab Review	Review

Learning Opportunities:

Lectures: There will be two hours of lecture per week. The lecture period will include PowerPoint slides and lecture material. Depending on the topic there may be in-class problem sessions to further expand the concepts. A calculator will be useful for the in-class problem solving.

Course Website: Lecture notes will be available weekly from the course website on Desire2Learn (D2L). I rely on D2L for a great deal of communication throughout the course. You should be checking our course page daily to be sure you are not missing important announcements.

Labs: Lab sessions are held in the Camosun general computing lab room in the Ewing building, room E112, on Wednesdays. All labs are computer based. Lab sessions will be weekly. Please note that lab space in the GP labs is extremely tight. Please do everything you can to capitalize on our lab time

together as finding time outside of class will be difficult. SPSS should be available on all computers throughout the campus, depending on license availability.

There are ten marked labs in the course. Each lab contains exercises to familiarize students with different aspects of spatial statistics used in geography. Attendance during lab periods is **mandatory**. In the case of illness, the instructor must be contacted **prior** to the class time and an alternate arrangement must be made; otherwise, a mark of zero will be assigned

You will need to bring pencil, eraser, ruler and a calculator for lab periods. The labs do not need to be typed. That said, your handwriting must be legible for me to mark your labs.

Each lab is worth 5%. All labs are due one week from the lab period, except where noted. Labs are due at the **beginning** of the lab period, no exceptions!! The penalty for assignments handed in late is 10% for the first 24 hours and 10% for each day after. You will need to bring pencil, eraser, ruler and a calculator for lab periods.

Teamwork is encouraged in labs. However, do not copy from each other when handing in assignments. While you may brainstorm and work together, all assignments must be written in your own words. Any students involved in copying will be given a mark of zero for that assignment.

Examinations: There two exams during the term. There will be 1 midterm exam in class time and one final exam in the exam period. The midterm exam is worth 20% of your final mark. The midterm will focus on the theoretical aspects of the course, the lectures and relevant chapters in the textbook. The final exam is worth 30% of your final mark and will focus on both the theoretical and the practical application of your lab experiences and problem sets discussed in class.

5. Basis of Student Assessment (Weighting)

Lab Exercises	50%
Midterm Exam	20%
Final Exam	30%
Total	100%

6. Grading System

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	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	1
0-49	F	Minimum level has not been achieved.	0

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 E-1.5 at camosun.ca 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, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. <i>(For these courses a final grade will be assigned to either the 3rd course attempt or at the point of course completion.)</i>
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.

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

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, at Student Services or the College web site at camosun.ca.

STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services and on the College web site in the Policy Section.