

 ORIGINAL COURSE IMPLEMENTATION DATE:
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 REVISED COURSE IMPLEMENTATION DATE:
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 COURSE TO BE REVIEWED: (six years after UEC approval)
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 Course outline form version: 09/15/14
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January 1996 September 2018 October 2023

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: GEOG 252	Number of Credits: 4 Course credit policy (105)							
Course Full Title: Explanation in Geograph	y: Quantita	ative Method	ls					
Course Short Title (if title exceeds 30 characters): Quantitative Methods								
Faculty: Faculty of Social Sciences		Departme	nt (or	program	if no department): Geo	graphy and the Environment		
Calendar Description:								
A numerical approach to problem-solving in data will be addressed.	geography	v. Methods ir	n the c	ollection,	description, analysis, and	d presentation of quantitative		
Prerequisites (or NONE):	None.							
Corequisites (if applicable, or NONE):								
Pre/corequisites (if applicable, or NONE):								
Equivalent Courses (cannot be taken for additional credit) Former course code/number: GEOG 352 Cross-listed with: Equivalent course(s): Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.				Transfer Credit Transfer credit already exists: ☑ Yes No Transfer credit requested (OReg to submit to BCCAT): □ Yes ☑ No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: □ Yes ☑ No To find out how this course transfers, see bctransferguide.ca. Special Topics				
Typical structure of instructional hours: Lecture hours 45			1	Will the course be offered with different topics? ☐ Yes				
Seminars/tutorials/workshops					<i></i>			
Laboratory hours 30				If yes, different lettered courses may be taken for credit				
Field experience hours				□ No □ Yes, repeat(s) □ Yes, no limit				
Experiential (practicum, internship, etc.)				Note: The specific topic will be recorded when offered.				
Online learning activities			Maximu	m enrolment (for inform	ation only): 25			
Other contact hours:				Maximum enrolment (for information only): 25 Expected frequency of course offerings (every semester,				
	Total	annually, every other year, etc.): twice per year – fall and winter semester						
Department / Program Head or Director: Steven Marsh					Date approved:	September 2017		
Faculty Council approval				Date approved:	September 15, 2017			
Campus-Wide Consultation (CWC)				Date of posting:	October 13, 2017			
Dean/Associate VP: Jacqueline Nolte				Date approved:	September 15, 2017			
Undergraduate Education Committee (UEC) approval					Date of meeting:	October 27, 2017		

100%

Learning Outcomes

Upon successful completion of this course, students will be able to:

- Apply methods in descriptive, inferential and relational statistics to the task of problem solving in geography.
- Create quantitative data through use of measurement techniques.
- Use quantitative methods to test hypotheses.
- Critically assess both the possibilities and limitations of statistical methodologies in geography.
- Create spreadsheets to manage quantitative data entry.
- Convert geographical questions into statistically testable propositions and research designs.
- Develop a basic working ability with statistical software, such as SPSS.

Prior Learning Assessment and Recognition (PLAR)

Yes INO, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion) Lectures, guest presentations, computer lab assignments, class discussions.

Grading system: Letter Grades:	Credit/No Credit: 🗌	Labs to be scheduled independent of lecture hours: Yes X N	lo
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NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Ту	pical Text(s) and Resou	Irce M	aterials (if more space	e is required,	download Supplementa	al Texts and F	Resource Materials for	orm)
	Author (surname, initials) Title (article, book, journal, etc.)					Current ed.	Publisher	Year
1.	Roberts, :Lance W., Karen Kampen and Tracey Pete	The	The Statistics Coach: Learning Through Practice				Oxford	2010
2.	Harris, Richard and Claire Jarvis	Stati	Statistics for Geography and Environmental Science			\boxtimes	Prentice Hall	2011
3.								
4.								
5.								
Re	quired Additional Supp	lies ar	nd Materials (software	e, hardware, f	tools, specialized clothin	ng, etc.)		
No	ne							
Ту	pical Evaluation Method	ds and	l Weighting					
F	inal exam: 35	5%	Assignments:	25%	Midterm exam:	%	Practicum:	%
Q	uizzes:	%	Lab work:	%	Field trip assignment	%	Shop work:	%

Other:

%

Total:

Tests:

Typical Course Content and Topics

1. Introduction: A quantitative approach to social and physical Geography.

Other:

2. What is quantitative data and where does it come from: issues of scale, measurement, and collection.

3. The normal curve and its role in statistics.

40%

- 4. Probability, and hypothesis testing.
- 5. Devising testable propositions in Geography
- 6. Survey design and sampling
- 7. The ethics of data collection and use.
- 8. How to detect and measure relationships in quantitative data
- 9. How to build and manage a spreadsheet for geographical analysis.
- 10. Applications of correlation and regression.
- 11. Detecting and mapping spatial dependency: an introduction to spatial autocorrelation..