

DEPARTMENT OF GEOGRAPHY, - COURSE OUTLINE – FALL 2018

GEOG 605

H(3-3)

Statistical Analysis: Basic & Beyond

Section	Days	Time	Location
LEC 01	MWF	11:00 -11:50	ST132
LAB 02	R	14:00-16:50	ES415

Instructor: Brent Else	Office: ES 340
Telephone: 403-220-2484	Email: belse@ucalgary.ca
Office Hours: By appointment	

Teaching Assistant: Kyle Plotsky	Office: TBA
Email: kyle.plotsky@ucalgary.ca	Office Hours: By Appointment

Please note: *The emergency evacuation assembly point for classes taught in Science Theatres is the Professional Faculties – Food Court and classes taught in Earth Sciences is ICT Food Court.*

Official Course Description:

Geography 605—Statistic Analysis: Basic & Beyond provides the student with an introduction to applied statistics, particularly as they are used in geographical analysis. Topics include sampling design, summary statistics, probability theory, inferential statistics, and multivariate analysis. Laboratory exercises provide hands-on experience in computer-based statistical analysis.

Prerequisite: Consent of the Department

Learning Resources: An Introduction to Statistical Problem Solving in Geography, 3rd edition by J. Chapman McGrew Jr., A.J. Lembo Jr., and Charles B. Monroe, published by Waveland Press Inc, 2014.

Grading (Weighting):

In-class “Quizzes” (5 quizzes, top 4 recorded, 7.5% each)	30%
Laboratory Assignments (4 assignments, 7.5% each)	30%
Final Project	20%
Registrar-scheduled Final Exam	20%

There will be a Registrar scheduled final exam for this course.

Grading System:

96-100	A+	77-80	B	59-61	C-
90-95	A	71-76	B-	55-58	D+
86-89	A-	65-70	C+	50-54	D
81-85	B+	62-64	C	0-49	F

For additional detailed course information posted by the Instructor Desire2Learn at <https://d2l.ucalgary.ca/d2l/home>

Reading Schedule

Week	Textbook Readings
Sep. 3 – 7	Chp 1 (Introduction)
Sep. 10 – 14	Chp 2 (Geographic Data), Chp 3 (Descriptive Statistics)
Sep. 17 – 21	Chp 3 (Descriptive Statistics), Chp 4 (Descriptive Spatial Statistics)
Sep. 24 – 28	Chp 5 (Probability/Discrete Distributions), Chp 6 (Continuous Distributions)
Oct. 1 – 5	Chp 7 (Sampling), Chp 8 (Estimation)
Oct. 8 – 12	Chp 8 (Estimation)
Oct. 15 – 19	Chp 9 (Inferential Statistics)
Oct. 22 – 26	Chp 10 (Difference Tests), Chp 11 (ANOVA)
Oct. 29 – Nov. 2	Chp 11 (ANOVA)
Nov. 5 – 9	Chp 12 (Categorical Difference Tests)
Nov. 12 – 16	Reading Break
Nov. 19 – 23	Chp 16 (Correlation), Chp 17 (Linear Regression)
Nov. 26 -30	Chp 17 (Linear Regression), Chp 18 (Multiple Regression)
Dec. 3 – 7	Chp 14 (Point Pattern Analysis), Chp 15 (Area Pattern Analysis)

Course Schedule

◀ Aug 2018		September 2018					Oct 2018 ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
						1	
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
16	17	18 Lab 1 - Introduction	19	20	21 Lab 1 Introduction QUIZ #1	22	
23	24	25 Lab 1 - Work	26	27	28 Lab 1 - Work	29	
30							

◀ Sep 2018		October 2018				Nov 2018 ▶	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	1	2 Lab 1 - Due Lab 2 - Introduction	3	4	5 Lab 1 - Due Lab 2 - Introduction	6	
7	8 Thanksgiving	9 Lab 2 - Work	10	11	12 Lab 2 - Work QUIZ #2	13	
14	15	16 Lab 2 - Due Lab 3 - Introduction	17	18	19 Lab 2 - Due Lab 3 - Introduction	20	
21	22	23 Lab 3 - Work	24	25	26 Lab 3 - Work	27	
28	29 QUIZ #3	30 Lab 3 - Due Lab 4 - Introduction	31				

◀ Oct 2018		November 2018				Dec 2018 ▶	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
				1	2 Lab 3 - Due Lab 4 - Introduction	3	
4	5	6 Lab 4 - Work	7	8	9 Lab 4 - Work Project Proposal Due	10	
11	12 ←-----	13 -----	14 READING BREAK	15 -----	16 -----→	17	
18	19	20 Lab 4 - Due	21 QUIZ #4	22	23 Lab 4 - Due	24	
25	26	27	28	29	30		

◀ Nov 2018		December 2018					Jan 2019 ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
						1	
2	3	4	5	6	7 QUIZ #5	8	
9	10 Project Due	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	
30	31						

Human subjects

Students are not expected to participate as researchers for in-class assignments

Supplementary Fees

Not Applicable

SUPPLEMENTAL INFORMATION

Writing across the Curriculum

Writing skills are not exclusive to English courses and, in fact, should cross all disciplines. The university supports the belief that throughout their university careers students should be taught how to write well, so that when they graduate their writing abilities will be far above the minimal standards required at entrance. Consistent with this belief, students are expected to do a substantial amount of writing in their university courses and, where appropriate, faculty members can and should consider quality of writing as a factor in the evaluation of student work. The services provided by Writing Support Services can be utilized by all undergraduate and graduate students who feel they require further assistance: www.ucalgary.ca/ssc/writing_support/overview.

Academic Accommodations

It is the student's responsibility to request academic accommodations, according to the university policies and procedures listed in the University Calendar.

The student accommodation policy can be found at: www.ucalgary.ca/access/accommodations/policy. Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: www.ucalgary.ca/policies/files/policies/student-accommodation-policy.pdf.

Students needing an accommodation based on a protected ground other than disability should communicate this need, preferably in writing, to the Department Head (email: geograph@ucalgary.ca).

Principles of Conduct

The University Calendar includes a statement on the principles of conduct expected of all members of the university community (including students, faculty, administrators, any category of staff, practicum supervisors, and volunteers), whether on or off university property. This statement applies in all situations where members of the university community are acting in their university capacities. All members of the university community have a responsibility to familiarize themselves with the principles of conduct statement, which is available at: www.ucalgary.ca/pubs/calendar/current/k.html.

Plagiarism, Cheating, and Student Misconduct

The University of Calgary is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect.

Academic dishonesty is not an acceptable activity at the University of Calgary, and students are **strongly advised** to read the Student Misconduct section in the University Calendar at: www.ucalgary.ca/pubs/calendar/current/k-3.html. Often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are (1) presenting another student's work as your own, (2) presenting an author's work or ideas as your own without adequate citation, and (3) using work completed for another course. Such activities will not be tolerated in this course, and students suspected of academic misconduct will be dealt with according to the procedures outlined in the calendar at: www.ucalgary.ca/pubs/calendar/current/k-5.html.

Internet and electronic communication device information:

There is no restriction on the use of laptops and tablets in class if they are used to take notes or find information relevant to the class, and if there is no disturbance or distraction of other students or the instructor. Phones must be turned off during class, unless you have previously identified yourself to the instructor as a health care or law enforcement professional. The use of any calculators and/or devices during examinations will be allowed, following guidelines set out by the instructor.

Freedom of Information and Protection of Privacy

Freedom of Information and Protection of Privacy (FOIP) legislation in Alberta disallows the practice of having students retrieve assignments from a public place, such as outside an instructor's office, the department office, etc. Term assignments will be returned to students individually, during class or during the instructor's office hours; if students are unable to pick up their assignments from the instructor, they must provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

Posting of Grades and Picking-up of Assignments

Graded assignments will be returned by the instructor or teaching assistant personally during schedule lecture or laboratory periods, unless they are made available electronically through the course D2L webpage. Grades and assignments will not be available at the Department of Geography's main office.

Faculty of Arts Program Advising and Student Information Resources

Have a question, but not sure where to start? The Faculty of Arts Students Centre is your information resource for everything in Arts! Drop in at SS 102, call us at 403-220-3580, or email us at ascarts@ucalgary.ca. You can also visit the Faculty of Arts website at <http://arts.ucalgary.ca/undergraduate>, which provides detailed information about common academic concerns.

For guidance on course registration (add, drop, swap), information about paying fees, and assistance with your Student Centre, contact Enrolment Services at 403-210-7625 or visit them at the MacKimmie Block.

Contact Information for Student and Faculty Representation

- SU VP Academic Phone: 220-3911 and e-mail: suvpaca@ucalgary.ca
- SU Faculty Rep. Phone: 220-3913 and e-mail: arts1@ucalgary.ca
- The students ombudsman office information can be found at: www.ucalgary.ca/ombuds/

Wellness and Mental Health Resources

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness, and academic success and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support, or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services>) and the Campus Mental Health Strategy website (<http://www.ucalgary.ca/mentalhealth/>).

Campus Safewalk

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day, to any location on Campus, including the LRT station, parking lots, bus zones, and university residences. Contact Campus Security at 220-5333 or use a help phone, and Safewalkers or a Campus Security officer will accompany you to your campus destination.

USRI Surveys

At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses (www.ucalgary.ca/usri). Your responses make a difference, so please participate in USRI surveys.