



**GEOGRAPHY FINAL COURSE OUTLINE: FALL 2014  
GEOGRAPHY 605  
GFC Hours (3-3)**

**Statistical Analysis: Basic & Beyond**

| Section | Days   | Time          | Location |
|---------|--------|---------------|----------|
| LEC01   | MoWeFr | 11:00 – 11:50 | ES 342   |
| LAB01   | We     | 14:00 – 16:50 | ES 415   |

|                         |   |
|-------------------------|---|
| Instructor: John Yackel | Office: ES 356  |
| Telephone: 403 220 4892 | Email: <a href="mailto:yackel@ucalgary.ca">yackel@ucalgary.ca</a> |

***The appropriate emergency evacuation assembly point for classes taught in Earth Sciences is ICT food court.***

**Official Course Description:**

Introduction to applied statistics, particularly as they are used in geographical analysis. Topics include descriptive statistics, sampling theory and design, probability theory, inferential statistics, geostatistics, spatial statistics, multivariate analysis. Laboratory exercises give students hands-on experience in computer-based statistical analysis.

**Prerequisite:**

Consent of the Department

**Text(s)/Readings: Required: *An Introduction to Statistical Problem Solving in Geography*, 3rd edition by J. Chapman McGrew Jr., Arthur J. Lembo, Jr. and Charles B. Monroe, published by Waveland Press, Inc. 2014.**

Suggested: Burt, J. E., Barber, G. M., & Rigby, D. L. (2009) *Elementary Statistics for Geographers* (3rd ed.) (New York: The Guilford Press). Available from the bookstore and/or The Collection Room ES 457

***There is no scheduled final exam for this course***

**Grading (Weighting):**

| Component        | Description                             | Grade Portion |
|------------------|---|---------------|
| Lab Assignments  | Five (5) lab assignments, each worth 8% | 40%           |
| Review tests     | Three (3) review tests, each worth 15%  | 45%           |
| Research project | A personal research project             | 15%           |

**Laboratory Assignments:** There will be five lab assignments, each worth 8% of your overall grade for this course. Lab assignments will be assessed using the grading system outlined below. In the event that a student fails a lab assignment, they will have ONE opportunity to improve their performance to attain a passing grade. Assignments will be handed out at the beginning of the appropriate lab session, and are to be handed back at the beginning of the lab session specified on the class schedule.

*Review Tests:* There will be three review tests throughout the term, each worth 15% of your overall grade for this course. These tests will consist of a combination of multiple-choice answer, short written answers, and/or extended written answer/problem solving sections.

*Personal research Project:* The personal research project is worth 15% of your overall grade for this course. This project should be viewed as an opportunity to perform an insightful statistical analysis on a research topic chosen by each student. Students will be responsible for formulating research questions, formulating testable hypotheses; acquiring appropriate data, performing statistical analyses and summary statements and/or conclusion towards answering their stated hypotheses. Students will be responsible for submitting a proposal outlining their proposed research plan, worth 3% and a final research report worth 12%. A detailed set of guidelines will be provided on D2L and in class.

### **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  |

### **Late Policy:**

Assignments submitted after the stated deadline will be penalized with the loss of a grade of 25% for **each day** late (including weekends). Lab assignments will not be accepted beyond 4 days of the due date. Exceptions to this policy must be discussed and confirmed with the lead instructor **in advance of the due date**. If a student fails to complete an assignment or similar set piece of work for legitimate reasons (for example: illness or domestic affliction), an alternative course of action must be discussed with the lead instructor or course assistant in a timely fashion and documentation will be required as per the University Calendar.

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

### **USRI**

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](http://www.ucalgary.ca/usri)). Your responses make a difference - please participate in USRI Surveys.

### **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, members of faculty can and should use writing and the grading thereof as a factor in the evaluation of student work. The services provided by the Writing Centre in the Effective Writing Office can be utilized by all undergraduate and graduate students who feel they require further assistance.

### **Principles of Conduct**

The University of Calgary 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 the University's

property. This statement applies in all situations where the members of the University community are acting in their University capacities. All Members of the University Community have a responsibility to familiarize themselves with this statement which is available at: <http://www.ucalgary.ca/pubs/calendar/current/j-2.html>

### **Plagiarism**

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. Quite 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 proper referencing and 3) using work completed for another course. This activity will not be tolerated in this course and students conducting themselves in this manner will be dealt with according to the procedures outlined in the calendar. <http://www.ucalgary.ca/honesty/plagiarism>

### **Student Accessibility Services Accommodations**

If you are a student with a documented disability who may require academic accommodation and have not registered with Student Accessibility Services, please contact their office at 220-8237. Students who have not registered with Student Accessibility Services are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor no later than fourteen (14) days after the start of this course.

### **Freedom of Information and Protection of Privacy**

*FOIP:* The Freedom of Information and Protection of Privacy (FOIP) legislation disallows the practice of having students retrieve assignments from a public place, e.g., outside 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 provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

### **Re: Posting of Grades and Picking-up of Assignments**

- All assignments will be handled through Blackboard or personally.
- Their own grades will be available to each student on Blackboard by password access. Grades will **not** be available at Geography's main office.

### **Contact Information for Student and Faculty Representation**

- SU VP Academic Phone: 220-3911 and e-mail: [suypaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)
- SU Faculty Rep. Phone: 220-3913 and e-mail: [arts1@ucalgary.ca](mailto:arts1@ucalgary.ca)

The students ombudsman office information can be found at:

<http://www.su.ucalgary.ca/page/affordability-accessibility/su-structure/contact-info>

### **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, 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.

### **Faculty of Arts Program Advising and Student Information Resources**

- Have a question, but not sure where to start? The new Faculty of Arts Program Information Centre (PIC) is your information resource for everything in Arts! Drop in at SS110, call us at 403-220-3580 or email us at [artsads@ucalgary.ca](mailto:artsads@ucalgary.ca). You can also visit the Faculty of Arts

website at <http://arts.ucalgary.ca/undergraduate> which has detailed information on common academic concerns.

- For program planning and advice, contact the Student Success Centre (formerly the Undergraduate programs Office) at (403) 220-5881 or visit them in their new space on the 3<sup>rd</sup> Floor of the Taylor Family Digital Library.
- For registration (add/drop/swap), paying fees and assistance with your Student Centre, contact Enrolment Services at (403) 210-ROCK [7625] or visit them at the MacKimmie Library Block.

Contact for Students Union Representatives for the Faculty of Arts:

[arts1@su.ucalgary.ca](mailto:arts1@su.ucalgary.ca), [arts2@su.ucalgary.ca](mailto:arts2@su.ucalgary.ca), [arts3@su.ucalgary.ca](mailto:arts3@su.ucalgary.ca), [arts4@su.ucalgary.ca](mailto:arts4@su.ucalgary.ca)