GEOM 3007A: Cartographic Theory and Design Section A - Winter 2023

Department of Geography and Environmental Studies, Carleton University

Location: Lectures (Monday); Labs (Tuesday)

Instructor: Peter Pulsifer, PhD

Office Hours: Mondays 10:30 – 11:30 AM, or by appointment

e-mail:peterpulsifer@cunet.carleton.ca

Teaching Assistant: To Be Determined

Course Electronic Resources:

Brightspace (http://brightspace.carleton.ca) and log in using your student account.

Course Calendar:

Synchronous Zoom or in-person lecture Session:

Mondays 11:35 AM to 1:25 PM

Synchronous Zoom or in-person lab Session:

Tuesdays 2:35 PM to 4:25 PM

Calendar Description:

Principles of and issues in cartography, cartographic communication and map design; practical aspects of cartographic representation using multimedia and online mapping.

Includes: Experiential Learning Activity

Course prerequisite(s): GEOM 1004 or GEOM 2007 or permission of the Department

Lectures and laboratory four hours a week.

Course Objectives

- Develop both theoretical and practical knowledge in thematic cartography including but not limited to descriptive statistics, data classification, mapping techniques, design concepts, multivariate mapping
- Get *extensive*, *hands-on practice* is making cartographically correct, attractive maps and figures incorporating maps, graphs, figures, images, etc.
- Gain exposure to the concept of critical cartography

• Gain experience in online mapping, web mapping and alternative maps.

Required Textbooks (available at or online through the MacOdrum Library and online):

Krygier, John, and Denis Wood. Making Maps: a Visual Guide to Map Design for GIS. Third edition. New York, NY: The Guilford Press, 2017. Print.

Permalink:

https://ocul-

crl.primo.exlibrisgroup.com/permalink/01OCUL_CRL/1gorbd6/alma991022759510205153

Recommended but not required:

How to Lie with Maps, Mark Monmonier, 3rd edition – published in 2018. **Older versions are out of date!** You can purchase this textbook on amazon: https://www.amazon.ca/How-Maps-Third-Mark-Monmonier/dp/022643592X/ or at the bookstore. This textbook will be placed on reserve at the MacOdrum Library.

Any additional course material will be made available on cuLearn.

Course Evaluation:

The grade weighting will be as below:
Lecture, lab and online participation: 12%
Laboratory assignments: 48%
Mid term quiz: 10%
Final project and presentation 30%
Total 100%

Course Format and Overview

As with the Fall 2022 term courses, this course will be delivered in-person. Each week will include a combination of in-person lecture and discussion sessions and practical workshops in the campus lab. We will follow Carleton University policies and guidelines (see https://carleton.ca/covid19/) and will continue to monitor the COVID-19 situation.

As with many classes at Carleton this year, switching back to in-person learning will continue to have some level of transition from how courses have been run over the past two years, and there may be issues to work out through the term. I encourage everyone to employ a combination of patience and open communication so that we can all help each other out.

Each week will include an in-person lecture session (Mondays 11:35-13:35) for full group participation. The second in-person session will (Tuesdays 14:35-16:35) will usually be used for practical lab sessions or student presentations, however some sessions will include review of

lecture material or assigned readings. Please do not hesitate to contact the instructor if anything is preventing you from participating properly in the course as designed. There are many things beyond our control, but reasonable modifications will be made wherever possible.

Some of you have already made us aware of potential problems with uniformly participating in the synchronous portions of this course. Due to the nature of much of what we will cover, it will be very difficult or impossible to successfully participate completely asynchronously in this course. At the same time, I recognize there will be challenges and will work with you to provide flexibility. Some of this will likely involve the recording of synchronous sessions. We ask all students to provide permission for these recordings, under the condition that the recordings only be used for the purposes of reviewing or getting caught up while taking this class.

Requirements:

Students will provide with access to lab computers that include all necessary sotware. However, most of the lab work will use open source software (i.e. QGIS) that can be downloaded and installed on your computer.

If students would like to use other software such as ArcGIS for their term project, for example, this software will be available on lab computers. Additionally, off-campus access to the software may be possible through the use of CU Desktop (https://carleton.ca/cudesktop/) or by installing the software on your computer system (see https://library.carleton.ca/help/arcgis-desktop-installation-guide).

The exact computing requirements and recommendations will necessarily be a work in progress, since we anticipate learning new restrictions and fixes as we test the software and then bring the students in as the term begins. We will document this evolving advice at https://carleton.ca/geography/computing-requirements-for-dges-courses/#GEOM3007

Attendance and Participation

Each week attendance may be taken (at any time during the in-person period). You must contact the instructor before an absence to provide an explanation and arrange for an alternate method to cover the material missed. 12% of the course grade is awarded for active engagement in lecture, lab and online activities (Brightspace help and discussion forums).

Lab Assignments

Each week an in-person period will be used to complete the lab assignments (6 assignments @ 8% each) or the term project. The lab assignments may require you to spend time outside of the lab period to complete them. Due dates are indicated in the detailed schedule provided as a separate document. The assignment reports must be submitted before the start of the lab session on their due dates. *Please note the penalty for late assignments (below)*.

Final Project

There will be a project (30%) on thematic mapping with your choice. At the end of the course, students will present their work during the lecture period and submit a report and all the files needed for working on the project by the last week of the classes. Please note that there will be a penalty for late project submission.

Mid-Term Quiz

A mid term quiz will occur before the reading week and will be based on the lecture material from previous lectures in the course and any reading material assigned prior to the quiz. The quiz will take 45 minutes in the synchronous period. Lab material will be presented after the quiz.

Policy on late assignments/projects:

In the spirit of compassionate grading during the COVID-19 era, some credit will be given for late assignments. The penalty for late assignments is 15% deduction in grade per day beyond the due date and time. Assignments more than two days late will be marked (i.e. given comments) but no grade assigned. Exceptions will be made with an acceptable medical note in keeping with the current policies of Carleton University. Medical notes must be provided to the instructor prior to the last day of class in order to receive grades on missed assignments.

Standing in the course is determined by the course instructor subject to the approval of the Faculty Dean. This means that grades submitted by the instructor may be subject to revision. No grades are final until they have been approved by the Dean.

Instructional & Conduct Offences:

Instructional offences include, among other activities, cheating, contravening examination regulations, plagiarism, submitting similar work in 2 or more courses without prior permission, and disrupting classes. Conduct offences apply in areas of discrimination and sexual harassment. Further information about University regulations which define and regulate these offences is presented in the Undergraduate Calendar:

http://calendar.carleton.ca/undergrad/regulations/academicregulationsoftheuniversity/

The University Academic Integrity Policy defines plagiarism as "presenting, whether intentionally or not, the ideas, expression of ideas or work of others as one's own." This includes reproducing or paraphrasing portions of someone else's published or unpublished material, regardless of the source, and presenting these as one's own without proper citation or reference to the original source. Examples of sources from which the ideas, expressions of ideas or works of others may be drawn from include but are not limited to: books, articles, papers, literary compositions and phrases, performance compositions, chemical compounds, artworks, laboratory reports, research results, calculations and the results of calculations, diagrams, constructions, computer reports, computer code/software, material on the internet and/or conversations.

Examples of plagiarism include, but are not limited to:

- any submission prepared in whole or in part, by someone else;
- using ideas or direct, verbatim quotations, paraphrased material, algorithms, formulae, scientific or mathematical concepts, or ideas without appropriate acknowledgment in any academic assignment;
- using another's data or research findings without appropriate acknowledgement;
- submitting a computer program developed in whole or in part by someone else, with or without modifications, as one's own; and
- failing to acknowledge sources through the use of proper citations when using another's work and/or failing to use quotations marks.
- Plagiarism is a serious offence that cannot be resolved directly by the course's instructor. The Associate Dean of the Faculty conducts a rigorous investigation, including an interview with the student, when an instructor suspects a piece of work has been plagiarized. Penalties are not trivial. They can include a final grade of "F" for the course.

Statement on Student Mental Health

As a University student you may experience a range of mental health challenges that significantly impact your academic success and overall well-being. If you need help, please speak to someone. There are numerous resources available both on- and off-campus to support you. Here is a list that may be helpful:

Emergency Resources (on and off campus): https://carleton.ca/health/emergencies-and-crisis/emergency-numbers/

Carleton Resources:

- Mental Health and Wellbeing: https://carleton.ca/wellness/
- Health & Counselling Services: https://carleton.ca/health/
- Paul Menton Centre: https://carleton.ca/pmc/
- Academic Advising Centre (AAC): https://carleton.ca/academicadvising/
- Centre for Student Academic Support (CSAS): https://carleton.ca/csas/
- Equity & Inclusivity Communities: https://carleton.ca/equity/

Off Campus Resources:

- Distress Centre of Ottawa and Region: (613) 238-3311 or TEXT: 343-306-5550, https://www.dcottawa.on.ca/
- Mental Health Crisis Service: (613) 722-6914, 1-866-996-0991, http://www.crisisline.ca/
- Empower Me: 1-844-741-6389, https://students.carleton.ca/services/empower-me-counselling-services/
- Good2Talk: 1-866-925-5454, https://good2talk.ca/
- The Walk-In Counselling Clinic: https://walkincounselling.com

Statement on Pandemic Measures

It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are a number of actions you can take to lower your risk and the risk you pose to those around you including being vaccinated, wearing a mask, staying home when you're sick, washing your hands and maintaining proper respiratory and cough etiquette.

Feeling sick? Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you should follow Carleton's symptom reporting protocols.

Masks: Masks are no longer mandatory in university buildings and facilities. However, we continue to recommend masking when indoors, particularly if physical distancing cannot be maintained. We are aware that personal preferences regarding optional mask use will vary greatly, and we ask that we all show consideration and care for each other during this transition.

Vaccines: While proof of vaccination is no longer required to access campus or participate in inperson Carleton activities, it may become necessary for the University to bring back proof of vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible and submit their booster dose information in <u>cuScreen</u> as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton's COVID-19 response and health and safety requirements please see the <u>University's COVID-19 website</u> and review the <u>Frequently Asked Questions (FAQs)</u>. Should you have additional questions after reviewing, please contact covidinfo@carleton.ca.

Requests for Academic Accommodations

Please include the following text, provided by Equity and Inclusive Communities, on all course outlines, and read it at the beginning of your first few classes to remind students. For details, see the accommodations section and the Course Outline Information on Academic Accommodations.

ACADEMIC ACCOMMODATION

You may need special arrangements to meet your academic obligations during the term. For an accommodation request the processes are as follows:

Pregnancy obligation: write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to

exist. For accommodation regarding a formally-scheduled final exam, you must complete the Pregnancy Accommodation Form (click here).

Religious obligation: write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details click here.

Academic Accommodations for Students with Disabilities

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodations in this course, please contact PMC at 613-520-6608 or pmc@carleton.ca for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodations for the formally-scheduled exam (if applicable).

Survivors of Sexual Violence

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and where survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: https://carleton.ca/equity/sexual-assault-support-services

Accommodation for Student Activities

Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation will be provided to students who compete or perform at the national or international level. Write to me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf