



SYLLABUS

GEOG 2200.01: Mapping Our World

Autumn 2022

3 credit hours – lecture based

11:10-12:30 MW, Derby 135

COURSE OVERVIEW

Instructors

Primary instructor: Dr. Tammy E. Parece

Office: 1168 Derby Hall

Email: parece.1@osu.edu (preferred contact method)

Office hours: 10-11 Mon & Friday (see zoom link – open hours, you don't need an appointment) or by appointment

TA: Katie Finneran

Email: Finneran.57@osu.edu

Office hours: 12 – 2 pm on Fridays on Zoom (open hours) or feel free to reach out to me if that time doesn't work and we can try and work out a different time

All office hours are through Zoom. Links are available in the course website. To request an appointment outside of the above times, please send both instructors an email with your availability up to a week ahead.

GENERAL EDUCATION: DATA ANALYSIS

This course meets the requirements of the General Education category *Data Analysis*. The intent of the Data Analysis GE is to enable students to deal with problems of data gathering, presentation, and interpretation. Students should develop an understanding of problems of measurement, be able to deal critically with numerical and graphical arguments, gain an understanding of the impact of statistical ideas in daily life and specific areas of study, and recognize the uses and misuses of statistics and related quantitative arguments.

GE Goals for Data Analysis: Students develop skills in drawing conclusions and critically evaluating results based on data.

Expected Learning Outcomes: Students understand basic concepts of statistics and probability, comprehend methods needed to analyze and critically evaluate statistical arguments, and recognize the importance of statistical ideas.

This course meets these goals and objectives by exposing students to the problems of data gathering, presentation, and interpretation, in the context of spatial, statistical maps.

Prerequisites

None.

Course description

Maps use a powerful language to show patterns that are not apparent in other data presentations. Corporations, government, media, and researchers use maps and geographic information technology to understand and visualize data on for example natural resources, flows of trade, historical events, property management, and diseases.

In this course, we will explore what makes spatial information special, how and why maps are such a powerful tool to understand an increasingly complex world, and how modern technology is currently transforming the art and science of map-making. In hands-on fieldwork, practical exercises and discussions, students will develop the knowledge, skills, and dispositions that constitute geographic information literacy. The main goal is to give students a geovisual literacy foundation (including spatial quantitative reasoning methodologies) so students can realize the value of geographic knowledge and develop their ability to analyze real-world, critical problems such as understanding international markets, demographic patterns, business locations, social and equity issues, transportation and infrastructure, natural disaster recovery and responses, and much more.

Course learning outcomes

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

1. employ basic methods of spatial data-gathering, presentation, and interpretation;
2. interpret map symbology in order to analyze and critically evaluate the spatial structure of and relationships among spatial phenomena;
3. demonstrate familiarity with some basic concepts of descriptive and inferential statistics in order to understand some unique properties of spatial statistics;
4. apply statistical ideas to seek explanations for unusual or interesting patterns on maps;
5. evaluate the impact of spatial data sampling, uncertainty and scale on map use.

HOW THIS COURSE WORKS

Mode of delivery: This class is in-person. All learning materials will be uploaded on Carmen Canvas. There will be additional components:

- General lectures
- Labs and exercises
- Office hours on Zoom.

Credit hours and work expectations: This is a **3-credit-hour course**. According to Ohio State policy (go.osu.edu/credithours), students should expect around 3 hours per week of time spent on direct instruction (instructor content, group and Carmen activities, for example) in addition to 6 hours of homework (reading and assignment preparation, for example) to receive a grade of (C) average.

Communications with instructors: *Email us if you have questions related to class materials and assignments. Make sure you include a detailed description of the problem and attach a screenshot if applicable.* We encourage you to help your classmates out if you know the answers, but make sure you are not violating the code of student conduct (e.g., do not upload your assignment or show them the exact answer to complete their assignments).

Other questions can be directed to the instructors via email (always include both instructor and TA in your emails, in case one of us is unavailable). ***Make sure that you put “GEOG 2200” in the subject line.***

COURSE MATERIALS AND TECHNOLOGIES

Textbooks

Required texts – available at the bookstore, as an ebook, or on Amazon:

1. Tyner, Judith A. 2015. *The World of Maps: Map Reading and Interpretation for the 21st Century*. Guilford Publishing.
2. Wheelan, C. (2013) *Naked Statistics: Stripping the Dread from the Data*. W. W. Norton & Company.

The following are available through Canvas as a PDF or html:

3. Kimerling, A. Jon, Aileen R. Buckley, Phillip C. Muehrcke, Juliana O. Muehrcke. Map Use: Reading, Analysis, Interpretation. 8th Edition. ESRI Press. A PDF of this book is in Carmen Canvas.
4. Gimond, M (2019). *Introduction to GIS and Spatial Analysis*. Available at <https://mgimond.github.io/Spatial/index.html>

Other readings will be uploaded on Carmen Canvas.

Course schedule – see Canvas for course schedule

Course technology

Technology support

For help with your password, university email, Carmen, or any other technology issues, questions, or requests, contact the Ohio State IT Service Desk. Standard support hours are available at ocio.osu.edu/help/hours, and support for urgent issues is available 24/7.

- **Self-Service and Chat support:** ocio.osu.edu/help
- **Phone:** 614-688-4357(HELP)
- **Email:** servicedesk@osu.edu
- **TDD:** 614-688-8743

Technology skills needed for this course

- ArcGIS Online (to be learned in this class; assumed no past experience with this platform)
- Microsoft Excel
- Basic computer and web-browsing skills
- Navigating Carmen (go.osu.edu/canvasstudent)
- CarmenZoom virtual meetings (go.osu.edu/zoom-meetings)
- One Drive cloud storage associated with your OSU email account (<https://onedrive.live.com/>)
- Recording a slide presentation with audio narration (go.osu.edu/video-assignment-guide)
- Recording, editing, and uploading video (go.osu.edu/video-assignment-guide)

Required equipment

- Computer: current Mac (Mac OS) or PC (Windows 10) with high-speed internet connection
- Webcam: built-in or external webcam, fully installed and tested
- Microphone: built-in laptop or tablet mic or external microphone
- Other: a mobile device (smartphone or tablet) to use for BuckeyePass authentication

Required software

- Microsoft Office 365: All Ohio State students are now eligible for free Microsoft Office 365. Full instructions for downloading and installation can be found at go.osu.edu/office365help.

Carmen access

You will need to use BuckeyePass (buckeyepass.osu.edu) multi-factor authentication to access your courses in Carmen. To ensure that you are able to connect to Carmen at all times, it is recommended that you take the following steps:

- Register multiple devices in case something happens to your primary device. Visit the BuckeyePass - Adding a Device help article for step-by-step instructions (go.osu.edu/add-device).
- Request passcodes to keep as a backup authentication option. When you see the Duo login screen on your computer, click **Enter a Passcode** and then click the **Text me new codes** button that appears. This will text you ten passcodes good for 365 days that can each be used once.

- Download the Duo Mobile application (go.osu.edu/install-duo) to all of your registered devices for the ability to generate one-time codes in the event that you lose cell, data, or Wi-Fi service

If none of these options will meet the needs of your situation, you can contact the IT Service Desk at 614-688-4357(HELP) and IT support staff will work out a solution with you.

GRADING AND FEEDBACK

How your grade is calculated

All submissions must be made via Carmen Canvas by 11:59PM on the due date to be considered on time.

CATEGORY	POINTS	OCCURRENCE	DUE DATES
Participation	5%	Multiple	
Self-introduction	1%	Once	August 31
Lab assignments	60%	Multiple	varies
Midterm exam (online, open book)	12%	Once	October 21 (Friday)
Term paper	22%	Once, with 3 milestones	December 8 (Thursday)
Total	100%		

Participation (5%)

Class participation includes attendance and some quizzes. This accounts for 5% of the total grade. Attendance will be taken. If you have an excuse for not being present in-class, please notify me and the TA before class. I will determine if the issue meets the requirement for an excused absence. We will have at least 4 quizzes.

Lab assignments (60%)

You will have multiple lab assignments throughout the semester.

Midterm exam (12%)

This exam is open-book, online, and timed.

Term paper (22%)

You are expected to consult with me during the semester about the topic, data gathering, and analysis. You will turn in a short proposal (5%), half-time progress (5%), and final paper (12%) for grading on Carmen Canvas. Instruction for the term paper is posted on Carmen Canvas.

Details about each assignment, including guidelines and rubric, will be made available on Carmen Canvas.

Late submissions

Late submissions of lab assignments are subject to 5% grade reduction for each late day. Late submission is better than no submission. Late submissions are not accepted on the exam, the project or the participation quizzes.

You have one opportunity to extend your deadline for one day during the semester (indicate it in your submission to get the full credit). This extension will be applied to an assignment of your choice (including the final paper). No permission is required; you will indicate in your submission that you are using the one-day extension. We suggest that you use this opportunity wisely and reserve it for the end of the semester when the workload is unusually high.

In case of personal and family emergencies, please notify us as soon as possible so that we can work out a submission timeline. Such extensions may or may not be granted on a case-by-case basis. Extensions are not granted after the fact, e.g., you can't ask for an extension on an assignment that was due two weeks before or wait until the end of the semester to submit assignments you missed.

Grading scale

A	A-	B+	B	B-	C+	C	C-	D+	D	E
≥93%	90-92%	87-89%	83-86%	80-82%	77-79%	73-76%	70-72%	67-69%	60-66%	<60%

Note: I do not round up. An 89.9% is just that, it is not a 90% and is not an A-.

Instructors' feedback and response time

We are providing the following list to give you an idea of our intended availability throughout the course. (Remember that you can call **614-688-4357(HELP)** at any time if you have a technical problem).

- **Grading and feedback:** For assignments, you can generally expect feedback within **10 school days**, unless emergencies occur to one of the instructors.
- **Email:** We will reply to emails within **48 hours on school days when class is in session at the university**.

Accessibility of course technology

This online course requires use of CarmenCanvas (Ohio State's learning management system) and other online communication and multimedia tools. If you need additional services to use these technologies, please request accommodations with your instructor.

- Canvas accessibility (go.osu.edu/canvas-accessibility)
- Streaming audio and video
- CarmenZoom accessibility (go.osu.edu/zoom-accessibility)
- Collaborative course tools

OTHER COURSE/UNIVERSITY POLICIES

Absence related to COVID-19

Continuous engagement with this course is essential to learning the material. Students are expected to attend class and engage with assignments and discussion prompts for every scheduled meeting. Students who need to miss class or who are not able to participate due to illness (COVID-19 or other illnesses), exposure to COVID-19, care for family members exposed to COVID-19 or other reasons are expected to contact the instructors as soon as possible to arrange for accommodation. Students in special situations or those requiring specific, long-term or other accommodation should seek support from appropriate university offices including but not limited to [Student Advocacy](#), [Student Life Disability Services](#) and [the Office of Institutional Equity](#).

Health and safety requirements

All students, faculty and staff are required to comply with and stay up to date on all university safety and health guidance (<https://safeandhealthy.osu.edu>), which includes optional wearing of a face mask in any indoor space and maintaining a safe physical distance at all times. If you make an appointment to meet with me in my office, I do request that you wear a facemask.

Academic integrity policy

See **Descriptions of major course assignments**, above, for my specific guidelines about collaboration and academic integrity in the context of this class. I will not tolerate cheating or plagiarism of any kind.

Ohio State's academic integrity policy

It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term “academic misconduct” includes all forms of student academic misconduct wherever committed; illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct <http://studentlife.osu.edu/csc/>.

Disability Services

The University strives to make all learning experiences as accessible as possible. If you anticipate or experience academic barriers based on your disability (including mental health, chronic or temporary medical conditions), please let me know immediately so that we can privately discuss options. To establish reasonable accommodations, I may request that you register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your

accommodations so that they may be implemented in a timely fashion. SLDS contact information: slds@osu.edu; 614-292-3307; slds.osu.edu; 098 Baker Hall, 113 W. 12th Avenue.

Mental Health Statement

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student's ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing. If you or someone you know are suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life's Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling [614-292-5766](tel:614-292-5766). CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on call counselor when CCS is closed at [614-292-5766](tel:614-292-5766) and 24 hour emergency help is also available through the 24/7 National Suicide Prevention Hotline at 1-800-273-TALK or at suicidepreventionlifeline.org.

Sexual Misconduct/Relationship Violence

Title IX makes it clear that violence and harassment based on sex and gender are Civil Rights offenses subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories (e.g., race). If you or someone you know has been sexually harassed or assaulted, you may find the appropriate resources at <http://titleix.osu.edu> or by contacting the Ohio State Title IX Coordinator at titleix@osu.edu

Diversity

The Ohio State University affirms the importance and value of diversity in the student body. Our programs and curricula reflect our multicultural society and global economy and seek to provide opportunities for students to learn more about persons who are different from them. We are committed to maintaining a community that recognizes and values the inherent worth and dignity of every person; fosters sensitivity, understanding, and mutual respect among each member of our community; and encourages each individual to strive to reach his or her own potential. Discrimination against any individual based upon protected status, which is defined as age, color, disability, gender identity or expression, national origin, race, religion, sex, sexual orientation, or veteran status, is prohibited.

Disclaimer

This course syllabus provides a general plan for the course; deviations may be necessary. Such deviations may be made for individuals or for the entire class, as deemed appropriate by the instructor. Any changes that affect the entire class will be announced by the instructor with as much advance notice as possible.