

# GEOG 5200 Cartography & Map Design – Spring 2020

## Meeting Times:

*Lecture:* Mondays, 8:00am – 9:20am, Hitchcock Hall 031

*Lab:* Wednesdays OR Fridays, 8:00am – 9:20am, Derby Hall 135

**Instructor Name and Email:** Dr. Emily S. Castellucci, [castellucci.5@osu.edu](mailto:castellucci.5@osu.edu)

**Office Hours and Location:** <https://osu.zoom.us/j/5747586898>

Information about availability will be posted on the course website.

## Teaching Assistant(s):

Name, Email	Office Hours and Location
Xiaoyu Liang, <a href="mailto:liang.918@osu.edu">liang.918@osu.edu</a>	<a href="https://osu.zoom.us/j/3084704139">https://osu.zoom.us/j/3084704139</a> Information about availability will be posted on the course website.

**Course Description:** A study of the cartographic techniques of map compilation and design including generalization, symbolization, reproduction, and GIS-based mapping with an emphasis on thematic mapping.

## Course Learning Objectives:

Upon completion of this course, students should be able to...

- Explain the relevance of cartography in the present day.
- Tailor a cartographic representation according to purpose, audience, and medium.
- Differentiate different types of maps, especially thematic map forms.
- Prepare geospatial data and corresponding text and visuals for cartographic representation.
- Demonstrate familiarity with coordinate systems and projections, making appropriate choices based on scale, location, and extent.
- Communicate geospatial information using evidence-based cartographic principles.
- Critically examine cartographic presentations for strengths and weaknesses, providing specific suggestions for improvement.

**Schedule:** You can find the schedule as a Google Doc at this link: [Schedule](#).

## Textbook:

- We will use the book *Cartography* by Kenneth Field (2018) as the strongly recommended text for this course. You can find the book at the Barnes and Noble: The Ohio State University Bookstore or at Amazon.com.
- Other readings and resources are provided on the course website.

## Evaluation:

- Labs: 48%
  - There will be 10 labs, and all labs will be counted toward your final grade in the course. No labs will be dropped.
  - Do not expect to complete all of your lab work during the scheduled lab time. You will need to dedicate time outside of class to completing your labs.
- ~~Project: 14%~~
  - ~~Between Labs 7 and 8, there will be a small project. The overall objective of the project is to replicate a historic map. The historic map and some of the data will be provided to you.~~
  - ~~This small project will be broken into two parts, and completion of Part 2 is dependent upon successful completion of Part 1.~~
  - ~~More information about the project will be made available on the course website.~~
- Exams: 42%
  - There will be 3 exams, and your lowest exam grade will be dropped.
  - Exams will be administered via the course website, and they will be timed, open-note exams that you must complete *individually*.
- Participation/Attendance: 10%
  - Attendance will be taken at all lecture meetings and lab meetings using a sign-in sheet. You must sign the sheet during the scheduled class time to be considered present. Failure to sign the sheet during the scheduled class time is considered an absence.
  - Attendance is worth 10 points in total. You are allowed 1 unexcused absence from lecture and 1 unexcused absence from lab without penalty. After this, every unexcused absence results in a -1 point deduction. No more than 10 points can be lost toward your attendance score.
  - Excused absences may be requested by contacting the instructor/TA. Decisions about excused absence requests are made at the discretion of the instructor/TA. It is highly recommended that documentation in support of the request is provided as soon as possible to expedite the decision-making process.
  - Due to cancellation of all remaining face-to-face class meetings, attendance will only be recorded for grade purposes through Friday, March 6<sup>th</sup>.
- Grading Scale (OSU standard scale):

○ A	93-100%	○ B-	80-82%	○ D+	67-69%
○ A-	90-92%	○ C+	77-79%	○ D	60-66%
○ B+	87-89%	○ C	73-76%	○ E	0-59%
○ B	83-86%	○ C-	70-72%		

Note: Your final grade as seen on the course website is rounded to the nearest whole number (e.g. an 89.49 is a B+ but an 89.50 is an A-). No other adjustment or curve will be applied. The letter grade that you see on the course website is what will be submitted to the registrar at the end of the semester.

## Policies:

1. *Course correspondence policies.*
  - a. Use the proper title when addressing your instructors/TAs. Recommended resource: [What should I call my professor?](#) For example: Because Emily S. Castellucci has a Ph.D., it's always Dr. Castellucci, *never* Ms., Mrs., or Miss.
  - b. When emailing your instructors/TAs using OSU email, always include the course number and meeting time somewhere in the subject or body of the email. This information will help your instructor/TA respond more quickly.
  - c. You are responsible for all announcements, assignments, and other material posted on Carmen. It is highly recommended that you review your Carmen Canvas notification settings each semester to ensure that you are receiving the information that you need to succeed.
  - d. If you need help with lab assignments outside of class time, you should post your question(s) to the appropriate discussion on the course website. This is great practice for posting in online forums for assistance when working on projects outside of class. Additionally, using discussion boards for lab questions helps us respond to questions in an efficient manner, so do not send your questions via OSU email or Carmen message, unless it is grade-related.
2. *Late policy.*
  - a. You can submit assignments up to **one week** late **unless otherwise posted**, but the late penalty is 5% (of the total possible score) per day. The late penalty will not reduce grades to below 70% (of the total possible score). Late penalties are managed by the course website and automatically applied.
  - b. Extensions are NOT typically granted due to getting "stuck," encountering unexpected errors, software crashes, lost work, inability to access the lab classrooms and/or Derby Hall, or other issues related to these. This is because these are realistic issues that you are likely to encounter when performing GIS work outside of this class, and you need to learn how to manage these issues when they arise. However, do keep in touch with your instructor/TA when issues arise so that we can provide support.
3. *Exam policies.*
  - a. Make-up exams are allowed, but they may be classified as excused (no penalty) or unexcused (10% penalty), as deemed appropriate by the instructor.
  - ~~b. You are expected to arrive to all exams *on time*. If you arrive late, you might not be allowed to begin the exam, as deemed appropriate by the instructor.~~
  - ~~c. You are expected to finish all exams *on time*. Exams begin when scheduled class time begins, and exams end when the scheduled class time ends. At the end of the scheduled class time, you are to stop working and turn in your exam. You may not continue working on your exam after the scheduled class time.~~
4. *Disability services policy.* 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](mailto:slds@osu.edu); 614-292-3307; [slds.osu.edu](http://slds.osu.edu); 098 Baker Hall, 113 W. 12th Avenue.

5. *Academic integrity/misconduct policies.*
  - a. It is the responsibility of the Committee on Academic Misconduct (COAM) 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/pdfs/csc\\_12-31-07.pdf](http://studentlife.osu.edu/pdfs/csc_12-31-07.pdf).
  - b. IMPORTANT: “Warnings” are not given due to an offense being one’s first offense, due to ignorance of what constitutes academic misconduct, or due to any other circumstances. *All* instances of suspected misconduct must be reported.
  - c. For specific academic integrity/misconduct information relevant to this course, see the Academic Integrity Supplement link under Modules > Course Information on the course website.
6. *Other policies.*
  - a. If you are ill, please consider the health of your fellow classmates and your instructor/TA when deciding whether or not you should come to class. If you are displaying symptoms indicating that what you have may be contagious (e.g. fever, etc.), please do not come to class. Instead, notify your instructor of your illness and ask how you can make up the missed class.
  - b. Practice your professionalism by ensuring that your work is free from spelling and grammatical errors. Such errors may be penalized at the discretion of the instructor/TA.

### **Student Support Services:**

For information about student support services, see the Student Support Services link under Modules > Course Information on the course website.

### **Technology:**

For information about software access, computer access, classroom access, and building access, see the Technology Access link under Modules > Labs on the course website.

### **Feedback:**

If you'd like to make a suggestion for how this course could be improved for future semesters, please submit that suggestion in the [Suggestion Box](#) (Google Form). However, please keep in mind that form submissions are not likely to be viewed until after the semester has ended, so if your concern requires a timely response, please email your instructor and/or TA, as appropriate.

**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.

**Schedule (revised)**

Reminder: For more information about readings, see file: Assigned Readings from Cartography by Kenneth Field (2018).pdf.

Week	Date	Lectures/Readings*/Exams	Exams	Labs
11	M 3/23	7 - Choropleth Maps <i>Read Group 7 (optional, recommended)</i>		
	F 3/27			Releasing Lab 8
12	M 3/30	8 - Dot Density Maps & Sized Symbol Maps <i>Read Group 8 (optional, recommended)</i>		
	F 4/3			Releasing Lab 9 <b>Lab 8 DUE @ 11:59pm</b>
13	M 4/6	9 - Cartograms & Flow Maps <i>Read Group 9 (optional, recommended)</i>		
	F 4/10			Releasing Lab 10 <b>Lab 9 DUE @ 11:59pm</b> Lab 8 closes
14	M 4/13	10 - Dissemination <i>Read Group 10 (optional, recommended)</i>		
	F 4/17			<b>Lab 10 DUE @ 11:59pm</b> Lab 9 closes
15	M 4/20	11 - History (optional)	Exam 2 opens (This exam covers Lectures 6-10.)	
	F 4/24		<b>Exam 2 DUE @ 11:59pm</b> <i>Late submissions NOT accepted.</i>	<b>Lab 7 DUE @ 11:59pm</b> Lab 10 closes
16	M 4/27		Exam 3 opens (This exam covers Lectures 1-10.)	
	F 5/1		<b>Exam 3 DUE @ 11:59pm</b> <i>Late submissions NOT accepted.</i>	Lab 7 closes

\* The assigned reading helps you review the lecture.

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**Schedule (original)**

**Key:** DARK YELLOW indicates lecture, and LIGHT YELLOW indicates lab.

**Remember:** Lab sections always meet, regardless of what is taking place during lecture.

Wk	Date	Lectures and Labs	Readings* and Deadlines**
1	M 1/6	Course Overview 1 - Fundamentals	Group 1a, Group 1b, and Group 2 - See file: Assigned Readings from Cartography by Kenneth Field (2018).pdf
	W 1/8 & F 1/10	Labs begin meeting this week! Lab 1 - ArcGIS Pro	
2	M 1/13	2 - Statistics & Classification	Group 3
	W 1/15 & F 1/17	Lab 2 - QGIS	<b>Lab 1 DUE F 1/17 @ 11:59pm</b> <b>Self Introduction and Syllabus Quiz DUE F 1/17 @ 11:59pm</b>
3	M 1/20	No lecture meeting.	Catch up on readings!
	W 1/22 & F 1/24	Lab 3 - Fundamentals ( <i>ArcGIS Pro</i> )	<b>Lab 2 DUE F 1/24 @ 11:59pm</b>
4	M 1/27	3 - Color	Group 4
	W 1/29 & F 1/31	Lab 4 - Statistics & Classification ( <i>QGIS</i> )	<b>Lab 3 DUE F 1/31 @ 11:59pm</b>
5	M 2/3	4 - Typography & Labeling	Group 5a
	W 2/5 & F 2/7	Lab 5 - Color ( <i>ArcGIS Pro &amp; QGIS</i> )	<b>Lab 4 DUE F 2/7 @ 11:59pm</b>
6	M 2/10	5 - Coordinate Systems & Map Projections	Group 5b
	W 2/12 & F 2/14	Lab 6 - Typography & Labeling ( <i>ArcGIS Pro &amp; QGIS</i> )	<b>Lab 5 DUE F 2/14 @ 11:59pm</b>
7	M 2/17	Catch-Up/Review Day	

	W 2/19 & F 2/21	Lab 7 - Coordinate Systems & Map Projections ( <i>ArcGIS Pro</i> & <i>QGIS</i> )	<b>Lab 6 DUE F 2/21 @ 11:59pm</b>
8	M 2/24	<b>Exam 1</b> (This exam covers Lectures 1-5.)	Group 6
	W 2/26 & F 2/28	Project - Part 1 ( <i>ArcGIS Pro</i> )	<b>Lab 7 DUE F 2/28 @ 11:59pm</b>
9	M 3/2	6 - Design	Group 7
	W 3/4 & F 3/6	Continue working on Project - Part 1.	Continue working on Project - Part 1.
10	M 3/16	7 - Choropleth Maps	Group 8
	W 3/18 & F 3/20	Project - Part 2 ( <i>ArcGIS Pro</i> )	<b>Project - Part 1 DUE F 3/20 @ 11:59pm</b>
11	M 3/23	8 - Dot Density Maps & Sized Symbol Maps	Group 9
	W 3/25 & F 3/27	Continue working on Project - Part 2.	Continue working on Project - Part 2.
12	M 3/30	9 - Cartograms & Flow Maps	Group 10
	W 4/1 & F 4/3	Lab 8 - Thematic Map Forms 1 ( <i>QGIS</i> )	<b>Project - Part 2 DUE F 4/3 @ 11:59pm</b>
13	M 4/6	10 - Dissemination	
	W 4/8 & F 4/10	Lab 9 - Thematic Map Forms 2 ( <i>QGIS</i> )	<b>Lab 8 DUE F 4/10 @ 11:59pm</b>
14	M 4/13	Catch-Up/Review Day	
	W 4/15 & F 4/17		<b>Lab 9 DUE F 4/17 @ 11:59pm</b>
15	M 4/20	<b>Exam 2</b> (This exam covers Lectures 6-10.)	
	R 4/23	<b>Exam 3</b> (This exam covers Lectures 1-10.) The exam will be <b>8:00am - 9:45am</b> in our normal classroom.	



	F 4/24		<b>Final Deadline: Late Submissions DUE F 4/24 @ 11:59pm</b>
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\* The assigned reading prepares you for the next lecture.

\*\* Deadlines listed in this column apply to everyone, regardless of section.

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