

GEOG 5200 Cartography and Map Design – Fall 2016

Meeting Times: Mondays, Wednesdays, & Fridays, 12:40pm – 1:35pm, Derby Hall 135

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Office Hours and Location: Tuesdays & Thursdays, 10am-11am, Derby Hall 1168*

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Office Hours and Location: Tuesdays and Thursdays, 10am-11am and Thursdays, 3pm-5pm, Derby Hall 1155

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.

Texts (required):

- We will use the book *Thematic Cartography and Geovisualization*, 3rd edition (2009) by Slocum, McMaster, Kessler, and Howard as the required text. Available at Student Book Exchange (SBX), Barnes & Noble The Ohio State University Bookstore, or Amazon (see <https://amzn.com/0132298341>).

Evaluation:

- Labs: 45%
 - There will be 10 labs, and you will have 2 weeks to complete each.
 - Do not expect to complete all of your lab work during the scheduled lab time. You may need to dedicate time outside of class to completing your labs.
- Examinations: 30%
 - There will be 3 examinations, consisting of multiple choice, matching, true/false, and other questions. See lecture schedule for dates of exams.
- Project: 20%
 - There will be 1 project. There will be class time dedicated to the completion of this project. More details about the project will be released as the semester progresses.
- Other: 5%
 - There may be other tasks/activities you are expected to do or complete as a participant in this course. This other category is intended to reflect your participation in and completion of these tasks/activities.
- *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%		

Policies:

1. *Disability services.* Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; <http://www.ods.ohio-state.edu/>
2. *Academic misconduct.* 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/pdfs/csc_12-31-07.pdf
3. *Examination policy.* Exams must be taken at the scheduled time, unless you have a documented reason for your absence at the regular scheduled exam time. You also must contact me in advance of the scheduled exam, except in the case of emergency.
4. *Labs policy.* Assignments will be penalized 10% for each day late and will not be accepted after the third day. Do NOT keep your work on the lab computers only! You are responsible for backing up your work (via BuckeyeBox, flash drive, external hard drive, or other method). Extensions will not be granted due to lost work.
5. *Technology policy.* This is the 21st century, so I will not ban the use of laptops, tablets and other digital devices. However, there are some guidelines and restrictions:
 - a. Be mindful – when you are emailing, tweeting, texting, updating, surfing, etc. you are not paying attention. Research shows that no one can multitask that well – not even you. Paying attention and taking good notes is essential to success in this course. Why are you here?
 - b. Be courteous – your use of digital devices should not distract other students in the class. It is unlikely that taking notes or searching class-relevant topics will be distracting. However, viewing videos of kittens or ice bucket challenges will likely distract others. Complaints about inappropriate technology use in class will result in your privileges being curtailed or revoked.
 - c. Be honest - emailing, surfing, and the use of any other applications or technologies is not allowed during the computer-based examinations. Be aware that your activity on the lab desktop computers may be monitored during exams.

Canvas:

You are responsible for all announcements, additional reading, assignments and other material posted at the Canvas site, so be sure to check it frequently.

Course Schedule:

Monday	Wednesday	Friday
<u>August 22</u> <i>No class meeting.</i>	<u>August 24</u> Course Overview Reading: Chapters 1 & 2 (skim)	<u>August 26</u> Lecture: Introduction & History Readings: Chapters 3 & 4
<u>August 29</u> Lecture: Statistics & Data Classification Readings: None.	<u>August 31</u> Lab 1: Getting Started: Making your First Map Reading: Chapters 5 & 6	<u>September 2</u> Lecture: Symbolization, Scale, and Generalization Reading: None.
<u>September 5</u> <i>No class meeting.</i>	<u>September 7</u> Lab 2: Levels of Data Measurement Reading: Chapters 7, 8, & 9	<u>September 9</u> Lecture: Geodesy, Coordinate Systems, and Projections – Part 1 Reading: None.
<u>September 12</u> Lecture: Geodesy, Coordinate Systems, and Projections – Part 2 Reading: None.	<u>September 14</u> Lab 3: Map Projections Reading: None. (Lab 1 DUE)	<u>September 16</u> Exam 1 Reading: Chapter 10 (skim) & Brewer, Chs. 7 & 8
<u>September 19</u> Lecture: Color Reading: None.	<u>September 21</u> Lab 4: Color (featuring QGIS) Reading: Chapter 12 & Brewer, Ch. 1 (Lab 2 DUE)	<u>September 23</u> Lecture: Cartographic Design Reading: Chapter 11 (skim) & Brewer, Chs. 5 & 6
<u>September 26</u> Lecture: Typography & Labeling Reading: None.	<u>September 28</u> Lab 5: Typography & Labeling Reading: Chapter 13 & Brewer, Ch. 4 (Lab 3 DUE)	<u>September 30</u> Lecture: Map Reproduction, Publishing, & Sharing Reading: Chapter 14 & Dent, Ch. 6
<u>October 3</u> Lecture: Thematic Map Forms: Choropleth Maps Reading: None.	<u>October 5</u> Lab 6: Choropleth Mapping Reading: None. (Lab 4 DUE)	<u>October 7</u> Exam 2 Reading: Chapter 17 (sections on Dot Maps) & Dent, Ch. 7
<u>October 10</u> Lecture: Thematic Map Forms: Dot Maps Reading: Chapter 17 (sections on Proportional Symbol Maps) & Dent, Ch. 8	<u>October 12</u> Lecture: Thematic Map Forms: Proportional & Graduated Symbol Maps Reading: None. (Lab 5 DUE)	<u>October 14</u> <i>No class meeting.</i>

<u>October 17</u> Lab 7: Dot Maps & Proportional Symbol Maps Reading: Chapter 19 (esp. section 19.1) & Dent, Ch. 10	<u>October 19</u> Lecture: Thematic Map Forms: Cartograms Reading: Chapter 19 (esp. section 19.2) & Dent, Ch. 11 (Lab 6 DUE)	<u>October 21</u> Lecture: Thematic Map Forms: Flow Maps Readings: None.
<u>October 24</u> Lab 8: Cartograms & Flow Maps Readings: Chapter 16	<u>October 26</u> Lecture: Thematic Map Forms: Isarithmic Mapping Readings: Chapter 20	<u>October 28</u> Lecture: Geovisualizations: Visualizing Terrain Readings: None.
<u>October 31</u> Lab 9: Isarithmic & Surface Mapping Readings: Chapter 21 & Muehlenhaus, Ch. 10 (Lab 7 DUE)	<u>November 2</u> Lecture: Geovisualizations: Animation Readings: Chapter 24 (skim) & Muehlenhaus Chs. 1 & 2 (& skim 3)	<u>November 4</u> Lecture: Geovisualizations: Web Maps Readings: None.
<u>November 7</u> Lab 10: Animation & Web Maps Readings: None. (Lab 8 DUE)	<u>November 9</u> Exam 3	<u>November 11</u> <i>No class meeting.</i>
<u>November 14</u> Project: Brainstorming (Lab 9 DUE)	<u>November 16</u> Project: Data Gathering	<u>November 18</u> Project: Proposals
<u>November 21</u> Project: Working (Lab 10 DUE)	<u>November 23</u> <i>No class meeting.</i>	<u>November 25</u> <i>No class meeting.</i>
<u>November 28</u> Project: Working	<u>November 30</u> Project: Working	<u>December 2</u> Project: Working
<u>December 5</u> Project: DUE	<u>December 7</u> Project: Peer Evaluations	<u>December 9</u> <i>No class meeting.</i>

* The assigned reading prepares you for the next lecture(s).

** On days when no reading is assigned, it is recommended that you either catch up or read ahead.

Disclaimer: This course syllabus provides a general plan for the course; deviations may be necessary. Any changes will be announced by the instructor with as much advance notice as possible.