GEOG 9009: Cartographic Design for GIS

San Francisco State University, Spring 2022

April 29th – May 6th, entirely online

Office Hours: On Zoom & we will need to do via appointment, but I’m really excited talk Cartography with you all so if you want to meet let’s set up a time!

Credit: 1.6 Continuing Education Units

INSTRUCTOR: Quentin J. Clark  
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Course Description:
This course examines the art, science, and ethics of making and interpreting thematic maps. The course will focus on making maps within the ArcGIS Pro platform using the concepts and principles of cartographic visualization and communication. You will practice these concepts, principles, and best practices in order to more effectively communicate the intended geographic meanings of your map designs.

Learning Objectives for Course:
• Basic principles of map design and layout  
• Map elements, which are essential and which are optional  
• Data symbolization  
• Thematic map types  
• Data classification and the tricky things that can happen when you start breaking data up into groups.  
• Figure/ground relationships (how to make your maps pop!)  
• Color schemes and ramps  
• What to look for in a good map, what to look for in a bad map.

Prerequisites
GEOG 9003 – Introduction to GIS or equivalent course

Assignments
You will be asked to complete a total of three lab exercises for this course. Each exercise will require you to deliver a first draft and a final draft of a layout.

Grading
This course is graded Credit/Non-Credit. To receive a Credit grade, students must demonstrate completion of each section by submitting a final map layout for each lab exercise.

Course Schedule

Thursday, April 28th
• Welcome message sent to enrolled students  
• All lecture slides and videos posted
Friday, April 29th
- Class officially begins – watch Lectures 1 – 4!
- Data for Labs 1 & 2 are posted on iLearn – start working on them!

Saturday, April 30th
- First drafts of Labs 1 & 2 are due by 5:00 PM
- Notes and comments of first drafts of Labs 1 & 2 returned to students

Sunday, May 1st
- Work on your final drafts of Labs 1 & 2

Monday, May 2nd
- Final drafts of Labs 1 & 2 are due by Midnight

Tuesday, May 3rd
- Start working on Lab 3 – The Final Project

Wednesday, May 4th
- Keep working on Lab 3!

Thursday, May 5th
- First Draft of Lab 3 due by 5:00 PM
- Comments and notes back to students by Thursday evening

Friday, May 6th
- Final Draft of Lab 3 due by Midnight (if you end up submitting on Saturday, May 7th that’s totally fine!)