

# GIS and Social Research

## GIS 3048 and SYA 6356

Spring 2022

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Office hours: Zoom Thursday 1 - 4

### Book

Video lessons that loosely follow this free pdf book

Title: GIS Tutorial 1: Basic Workbook (w/CD & DVD) , Author: Gorr

### Grades

Lab exercises	35%
Homework	35%
XY	10%
Combining Skill 1	
Qualifying assignment 1	10%
Combining skills 2	
Qualifying assignment 2	10%

### Flipped style class

What is a flipped (or inverted) class? We do the "lecture" part of this course at home and we do the homework part of this course in the classroom. Why? 1. My goal is for everyone to leave this course knowing ALL of the content that I have selected. Not 75% to pass, not 89% and beg for a point to get an A, definitely not 64% and barely fail. 2. If this was an office or a research team we would all contribute and work together so that we collectively complete what we are working on. 3. And mainly because...what is learning anyway. You – the student – must do all of the tutorials in the book on your own time (it's best to just be in open lab Tuesdays and Thursdays) Me – the professor – will display during class time what the assignments should look like and help you make your maps look like mine. Along the way I will show you tricks and efficient ways that people who work in the industry actually do things and how what we are doing is applied

## Outcomes

1. Map making
  - Understand the basics of building a readable map.
  - An understanding of the methods of Geographers in terms of this application: GIS
  - How is GIS used in the world. How is this tool vital to fields outside of Geography
  - Understanding spatial relationships through using maps for conceptual exercises
2. Analyze data
  - Gaining tools of research in social science methodology
  - Applying the knowledge gained this semester into a final project used in actual research
  - How to understand spatial relationships and correlations of data
3. Compliment your major
  - How is GIS going to benefit you in your major and your career
  - Future research projects in other classes
4. Prepare for entry level job
  - GIS internship
  - Graduate School

## Overview

This course will be in a format called the “inverted classroom”. This means that generally for homework, you will be doing the lessons and in the classroom, we will be doing the homework. Please google what inverted classroom means and why it is so beneficial for interactive learning. If you do not do the lessons on your own time it will be a very frustrating use of class-time to do the homework. There is a separate document that has the schedule of all assignments. Make all maps excellent, to the caliber of the first assignment. NO LATE WORK.

## Lab Exercises

I will make videos for 10 different skills. This loosely follows an ESRI book from arc map but we are using arc pro and I change things anyway. However, you can download the ESRI book if you want, I mean why not. You repeat the lab exercise that I do.

## Homework

For each lab exercise, I have created a “homework”. This is in quotes because it’s really just the same thing as the lab exercise just with different data.

## **Qualifying Assignment or Combining Skills**

In the past I have called these qualifiers but it is really just combining the skills we learned this semester to create a more substantial map.

## **Attendance**

Attendance is mandatory. This is a small class and I will know when you are not here. But zoom counts as attending

## **Academic Honesty**

Cheating and plagiarism will result in a failing grade for the course. All work submitted for credit in this class must be original and may not be submitted for credit in any other course. Resubmitting course work that was submitted for credit in another course will result in a failing grade for that assignment and possibly for this course.

## **ADA Statement:**

If you have a documented disability as described by the Americans with Disabilities Act (ADA) and the Rehabilitation Act of 1973, Section 504, you may be eligible to receive accommodations to assist in programmatic and/or physical accessibility.