

EVSC 3020/5020: Intro to GIS Lab
Monday 5-9pm, Wilson Hall 308
Tuesday 5-9pm, Gibson Hall 041

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Laboratory Workbook: *GIS Tutorial 1: Basic Workbook for ArcGIS 10*, Wilpen L. Gorr & Kristen S. Kurland. ESRI press, Redlands, California. ISBN: 978-1-58948-259-3

Laboratory Description: GIS Methods lab is designed to provide you with practical, hands-on experience using ESRI ArcGIS software through the use of an instructional workbook, assignments, and a student-defined project. Short lectures and demonstrations will be given to introduce key topics and supplement the workbook.

Attendance: Attendance of at least one lab lecture each week is required. Lab lectures will be given on Monday and Tuesday at 5pm and 7pm each night. Because of the individual nature of the tutorials, attendance in addition to the lab lecture is not required, but a TA will be available to provide help during the full lab period. Your attendance will be monitored via a sign-in sheet and will be incorporated into your course participation grade. You must sign in to receive attendance credit.

Assignments: See the following page for the schedule of assignments. Each week's assignment consists of assignments from the workbook chapters and may also include written questions. All assignments will be submitted via Collab. Please check the Collab site for submission instructions specific to each week's assignment as they may vary from those in the workbook. All assignments are due at 11:55 PM on the Tuesday one week after the assignment is given. Lab assignments will be graded based on correct use of GIS, elements of mapmaking, and answers to questions. *No late work will be accepted*, but extensions may be requested. You must request an extension no fewer than 24 hours before the lab is due. Your lowest lab assignment grade for the semester will be dropped. Lab assignments, in total, will comprise 10% of your final course grade.

Lab Exam: A lab practical exam will be given the week of October 7th. This exam tests your proficiency with the basic GIS and mapmaking functions covered in the first half of the course. The lab exam is worth 10% of your final course grade.

Projects: During the last half of the course you will develop a project involving the use of GIS. This is a project of your choosing and is an ideal way to explore how GIS is applicable to topics of your research/academic interest. Examples of past projects are posted on Collab. You will be required to submit a written project proposal and give a presentation at the end of the semester. Students enrolled for graduate credit are also required to write a short paper on their project. Projects are worth 25% of your final grade.

Access to GIS: The ArcGIS Desktop suite of software is installed on most if not all lab computers on grounds. Individual copies of the software are available for free from the Scholar's Lab in Alderman

Library. We encourage you to get your own copy since this will make completing the assignments and managing your data much easier. ArcGIS can also be accessed through the Hive.

Lab Schedule:

Date:	Tutorial Chapters:	Assignment:
Sept 2/3	(1) Introduction, (2) Map Design	Choose one assignment from each chapter
Sept 9/10	(3) GIS Outputs	Assignments 3-1 and 3-2
Sept 16/17	(4) Geodatabases,	Assignments 4-1 and 4-2
Sept 23/24	(5) Spatial Data	Assignments 5-1 and 5-2
Sept 30/Oct1	(6) Geoprocessing, (7) Digitizing	Assignments 6-1 and 7-1
Oct 7/8	Lab Exam	Project Proposal Ideas
Oct 14/15	Fall Reading Days-No Lab	
Oct 21/22	(9) Spatial Analysis	Choose one assignment from Ch. 9
Oct 28/29	(11) Spatial Analysis (raster)	Choose one assignment from Ch. 11
Nov 4/5	(10) 3D Analysis	Choose one assignment from Ch. 10
Nov 11/12	Choose your own tutorial	Complete 1 tutorial from provided list
Nov 18/19	Work on projects (attendance not required)	
Nov 27/28	Work on projects (attendance not required)	
Dec 2/3	Project Presentations	