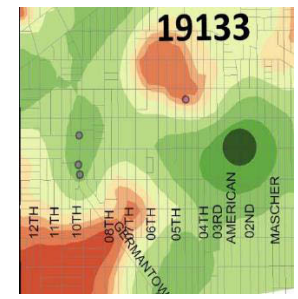
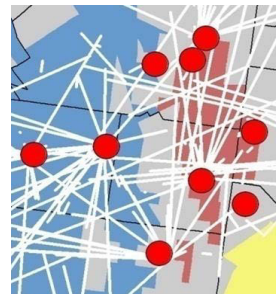
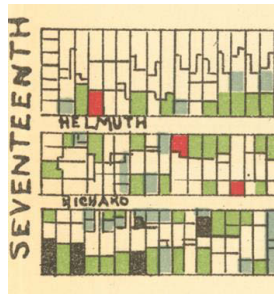


SWRK730

COMMUNITY MAPPING ♦ COMMUNITY MAPPING ♦ COMMUNITY MAPPING



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### OBJECTIVES

This course is intended as a hands-on introduction to vector GIS using ArcView 10 software. Vector GIS data are appropriate for modeling geographic objects, such as bounded areas (census tracts or service districts), specific locations (buildings or events such as crimes), and networks (streets). Students will develop skills necessary for carrying out basic GIS projects and for advanced GIS coursework. We will focus on ways that GIS is and could be applied to urban history, health, criminology and social services. The class also aims to help students develop an understanding of what is spatial, when GIS is appropriate for answering question, and to develop an awareness of the power issues involved in map-making. By the end of this course, you should be familiar enough with ArcGIS 10 to find, map, and analyze data using basic GIS tools and be able to teach yourself additional GIS skills using the help files, online materials, and software manuals.

### GRADING

Over the course of the semester, you must complete 8 out of the weekly homework assignments or 5 weekly homework assignments and a final project. Your final course grade will be based on class participation (20%), homework assignments (10% each), and a final project (30%).

**A+** Exceptional    **A** Outstanding    **A-** Excellent    **B+** Very good    **B** Good    **B-** Competent    **C+** Fair    **C-** Marginal

If you meet the basic expectations for an assignment, you can expect to receive a **B+** (very good). Grades within the A range will be awarded only for work that exceeds the basic expectations as described in the homework/final project assignment.

### ELECTRONIC DEVICES

Please show consideration for the instructor and your classmates by not using cell phones (including text-messaging) at all during class and using laptop or desktop computers for class-related activities, only. I particularly value paying full attention to classmates during the discussion portion of class.

### ATTENDANCE POLICY

Attendance at all classes is expected and will be factored into the class participation portion of your final grade. Because we will cover new conceptual and technical material every week, it is difficult to make up a missed class. If an emergency arises and you must miss class, please contact the instructor in advance.

## CODE OF ACADEMIC INTEGRITY

All students are expected to abide by the University of Pennsylvania's established Code of Academic Integrity

[http://www.upenn.edu/academicintegrity/ai\\_codeofacademicintegrity.html](http://www.upenn.edu/academicintegrity/ai_codeofacademicintegrity.html) This code explicitly prohibits cheating, plagiarism, fabrication, multiple submissions, misrepresentation of academic record, facilitating academic dishonesty, and unfair advantage.

## COURSE MATERIALS

A manual for working with ArcGIS 10 is available on Canvas (under "GIS Materials") as well as series of instructional videos and practice data. You are not required to watch the videos and complete the practice exercises; use them as resources as you need them. All of the data for the course is available on the course canvas site. You will also receive a free one-year student edition of ArcView GIS 10 software.

## WEEKLY READINGS

Short readings for each class have been posted to Canvas. You are asked to read these prior to coming to class in order to participate in class discussions. Each student will be required to sign up to lead discussion during two class sessions.

DATE	READINGS	GIS LAB TOPICS	ASSIGNMENT DUE (BY SAT 12AM)
Jan 17 <b>1</b>	<b>Maps as propositions/Queering the Map</b> <ul style="list-style-type: none"><li>Krygier &amp; Wood, "Ce n'est pas le monde," Propositions for Mapmakers, 2009.</li><li>Dashka Slater, "Fire on the 57 Bus," <i>The New York Times</i> 29 January 2015.</li></ul>	Introduction to ArcMap Panning/Zooming, Layering maps Identifying attributes	N/A
Jan 24 <b>2</b>	<b>Social Survey Movement and Public Sociology</b> <ul style="list-style-type: none"><li>Mary Jo Deegan, "WEB Du Bois and the Women of Hull House," <i>American Sociologist</i> 1988</li><li>Selections from <i>The Philadelphia Negro</i></li><li>A Legacy of Courage: WEB Du Bois and The Philadelphia Negro (19-minute documentary)</li></ul>	Map symbology, Thematic maps	Install ArcGIS; review introductory ArcGIS lab materials from first class
Jan 31 <b>3</b>	<b>"Slow Violence" and Environmental Justice</b> <ul style="list-style-type: none"><li>Rob Nixon, "Slow Violence," <i>Chronicle of Higher Education</i> 26 June 2011</li><li>Fisher, Kelly &amp; Romm (2006). Scales of environmental justice: Combining GIS and spatial analysis for air toxics in West Oakland, California. <i>Health &amp; Place</i> 12(4): 701-714.</li></ul>	Joining attribute tables, Calculating attribute values	Thematic mapping (1)
Feb 7 <b>4</b>	<b>Historical and Contemporary Mortgage Redlining</b> <ul style="list-style-type: none"><li>Glanz and Martinez (2018). "Keep Out: For people of color, banks are shutting the door to homeownership," <i>Reveal: The Center for Investigative Reporting</i>, 15 February.</li></ul>	Layouts and Labeling, Georeferencing historical maps	Joining Tables (2)

	<ul style="list-style-type: none"> <li>Hillier (2003). Redlining and the Home Owners Loan Corporation, <i>Journal of Urban History</i> 29(4): 394-420</li> </ul>		
Feb 14 <b>5</b>	<b>Contemporary Carceral Geographies</b> <ul style="list-style-type: none"> <li>Spatial Information Design Lab, "Architecture and Justice (Million Dollar Blocks)," Columbia University</li> <li>Dominique Moran, "Geographies of Carceral Systems," Chapter 6 in <i>Carceral Geography</i> 2015.</li> </ul>	Mapping census data Managing projections	Layouts (3)
Feb 21 <b>6</b>	<b>Geographies of Re-entry</b> <ul style="list-style-type: none"> <li>Abrams &amp; Snyder, "Youth offender reentry: Models for intervention and directions for future inquiry," <i>Children and Youth Services Review</i> 2010.</li> <li>Venkatesh &amp; Kim, "A Research Note: The Socio-Spatial Consequences of Inmate Release in New York City," Center for Urban Research and Policy, 2007.</li> </ul>	Mapping census data Managing projections	Georeferencing (4)
Feb 28 <b>7</b>	<b>Food Shopping and Food Access</b> <ul style="list-style-type: none"> <li>Hillier &amp; Chrisinger, "The Reality of Urban Food Deserts and What Low-Income Food Shoppers Need," in John Jackson, Jr., editor, <i>Social Policy and Social Justice</i> 2016.</li> </ul>	Review of first half of the course	Mapping Census Data (5)
<b>NO CLASS ON MARCH 7<sup>th</sup> SPRING BREAK</b>			
Mar 14 <b>8</b>	<b>Measuring and Mapping Fear &amp; Safety</b> <ul style="list-style-type: none"> <li>South, Kondo, Cheney, Branas, "Neighborhood Blight, Stress, and Health: A Walking Trial of Urban Greening and Ambulatory Heart Rate," <i>American Journal of Public Health</i> 2015.</li> <li>Wiebe, Guo, Allison, Anderson, Richmond, Branas, "Fears of Violence During Morning Travel to School," <i>Journal of Adolescent Medicine</i> 2013.</li> <li>Boschmann &amp; Cubbon, "<a href="#">Sketch Maps and Qualitative GIS</a>": Using Cartographies of Individual Spatial Narratives in Geographic Research," <i>The Professional Geographer</i> 2013.</li> </ul>	Geocoding addresses Spatial joins (aggregation)	
Mar 21 <b>9</b>	<b>Measuring and Mapping Fear &amp; Safety—Feminist Perspective</b> <ul style="list-style-type: none"> <li>Kwan, "Affecting Geospatial Technologies: Toward a Feminist Politics of Emotion," <i>Professional Geographer</i>, 2007.</li> <li>Kwan, "From oral histories to visual narratives: re-presenting the post-September 11 experiences of the Muslim women in the USA," <i>Social &amp; Cultural Geography</i>, 2008.</li> </ul>	Attribute and location queries	Geocoding (6)

Mar 28 <b>10</b>	<b>Geographies of Sexual Violence Legislation</b> <ul style="list-style-type: none"> <li>• Calkins, Jeglic, Beattey, Zeidman, Perillo, "Sexual Violence Legislation: A Review of Case Law and Empirical Research," <i>Psychology, Public Policy and Law</i>, 2014.</li> <li>• Grubestic, Mack and Murray, "Geographic Exclusion: Spatial Analysis for Evaluating the Implications of Megan's Law," <i>Social Science Computer Review</i> 2007.</li> </ul>	Buffers and Euclidean distances, network distances	Queries (7)
Apr 4 <b>11</b>	<b>Disrupting Heteronormativity and Queering the Map</b> <ul style="list-style-type: none"> <li>• Brown &amp; Knopp, "Queering the Map: The Productive Tensions of Colliding Epistemologies" <i>Annals of the Association of American Geographers</i> 2008.</li> <li>• Ferreira &amp; Salvador, "Lesbian collaborative web mapping: disrupting heteronormativity in Portugal," <i>Gender, Place and Culture</i>, 2015</li> </ul>	GPS and animation	Distances (8)
Apr 11 <b>12</b>	<b>Queer Bodies, Queer Spaces</b> <ul style="list-style-type: none"> <li>• Geisking, "Crossing over into neighbourhoods of the body: urban territories, borders and lesbian-queer bodies in New York City," <i>AREA</i> 2016.</li> <li>• Boschmann &amp; Cubbon, "Sketch Maps and Qualitative GIS: Using Cartographies of Individual Spatial Narratives in Geographic Research," <i>The Professional Geographer</i> 2013.</li> </ul>	Density maps 3D maps	GPS (9) and Animation (10)
Apr 18 <b>13</b>	<b>Ethics, Privacy and Spatial Data</b> <ul style="list-style-type: none"> <li>• Valentin-DeVries, Singer, Keller &amp; Krolik (2018). Your Apps Know Where You Were Last Night, and They're Not Keeping It Secret. <i>The New York Times</i> 10 December.</li> <li>• Laura Kurgan, "Representation and Necessity of Interpretation" chapter in <i>Close Up at a Distance</i> (2013).</li> </ul>	Cartograms Online interactive maps	Density & 3D (11)
April 25 <b>14</b>	<b>Tobacco Advertising</b> <ul style="list-style-type: none"> <li>• Hillier, Cole, Smith, Yancey, Williams, Grier, McCarthy, "Clustering of Unhealthy Ads Around Child-serving Institutions," <i>Health &amp; Place</i>, 2009</li> <li>• Hillier, Chilton, Zhao, Szymkowiak, Coffman, Mallya, "Concentration of Tobacco Advertisements at SNAP and WIC Stores", Philadelphia, Pennsylvania, 2012," <i>Preventing Chronic Disease</i>, February 2015.</li> </ul>	Review of second half of the semester	Cartogram (12)  Final Project due by May 3rd