

Emerging Topics in GIS: Mapping the Census

The Ohio State University

Autumn 2014

Instructor: Prof. Ningchuan Xiao

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Office Hour: Friday 1:00 - 2:30 PM or by appointment

Lecture: Derby Hall 0140, Mo We 9:35 - 10:55 AM

Course URL: <http://carmen.osu.edu>

This is a seminar style class that surveys the research field of mapping the census. This class is designed to help students understand the important issues related to the use of census data and develop critical skills of using such data. The first part of this course is specifically focused on data preparation. The second part of the course examines a wide range of topics from the literature.

Evaluation

Standard OSU grading scale will be used for evaluation. Grading will be based on four elements:

- Lab exercises (40%). We are going to have multiple lab assignments, especially at the beginning of the semester. The labs are not step-by-step tutorials. Instead, critical concepts and hints will be provided that will help students to successfully complete the lab assignments.
- Participation (20%). Each student will lead the discussion of papers at least once during the semester. All other students will help prepare discussion questions. A [list of the papers](#) are handed out at the beginning of the semester and each student will choose a day to lead the discussion. Students are also encouraged to choose other paper to replace the ones listed in the course schedule. In general, the student who lead the discussion should provide a detailed, meaningful overview of the papers and then choose a subset of the questions to discuss.
- Project (40%). Each student must submit a proposal about the final project by the end of October 20.

Course Schedule

A tentative course schedule is available at [here](#). Please check the web site frequently because materials listed in the schedule will be updated each week.

Important Issues

Late papers. Each lab, exercise, and project item have a specific deadline and late submissions will not be accepted. Exceptions may be granted in cases such as serious illness, family emergency, or career opportunities, if requests were made before class starts. All submissions must be done on carmen (no email submissions please).

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. **Plagiarism is wrong and should be prohibited.** Instructors shall report all instances of alleged academic misconduct to the Committee (Faculty Rule 3335-5-847). For additional information, see the Code of Student Conduct (<http://studentaffairs.osu.edu/csc/>).

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, TDD292-0901; <http://www.ods.ohio-state.edu/>.

Geography 5224: Course Schedule

The links in this schedule will be made available before class.

Week	Date	Topics	Readings	Note
1	8/27	Introduction		
2	9/1	No class (Labor Day)		
	9/3	Census geography		
3	9/8	Census demographic		Signup
	9/10	American community survey		
4	9/15	Other data sets		
	9/17	Geocoding and geomasking	ARZ99, BCM06	
5	9/22		YMS09, Zand14	
	9/24		Due74, RAG+06	
6	9/29		SSS+07, Zand08	
	10/1	Geocoding lab		
7	10/6	Public health	CCD+07, MRS+08	
	10/8		EGK+04, BBE+08	
8	10/13		WCM+08, Emam13	
	10/15	Areal interpolation	LU94, Xie95	
9	10/20	Dasymetric lab		Proposal
	10/22		EB01, Maan02	
10	10/27		WM03, Menn03	
	10/29		HLH04, WQW05	
11	11/3		MH06, QSC10	
	11/5		ZI10, NBL+14	
12	11/10	Environment justice	Cut95, PKZ06	
	11/12		CA97, Maan07	
13	11/17	Uncertainty	WCM+08, SW10	
	11/19	Aggregation	OR95, Mar98	
14	11/24		LRF+08, RMO+08	
	11/26	No class (Thanksgiving)		
15	12/1	Projects		
	12/3	Presentation		
16	12/8	Presentation		
17	12/17			Final report (5 PM)

[Go to course syllabus](#)

[Go to the reading list](#)

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