

NEW COURSE FORM

1. General Information.				
a.	Submitted by the College of: Arts & Sciences	Today's Date:	10/18/2011	
b.	Department/Division: GEOGRAPHY			
c.	Contact person name: Matthew Zook	Email: zook@uky.edu	Phone:	510-410-1410
d.	Requested Effective Date:	<input checked="" type="checkbox"/> Semester following approval	OR	<input type="checkbox"/> Specific Term/Year ¹ : _____
2. Designation and Description of Proposed Course.				
a.	Prefix and Number: GEO719			
b.	Full Title: Geospatial Technologies: (subtitle required)			
c.	Transcript Title (if full title is more than 40 characters):	Geospatial Technologies: (seminar)		
d.	To be Cross-Listed ² with (Prefix and Number):	_____		
e.	Courses must be described by <u>at least one</u> of the meeting patterns below. Include number of actual contact hours ³ for each meeting pattern type.			
	_____ Lecture	_____ Laboratory ¹	_____ Recitation	_____ Discussion
	_____ Clinical	_____ Colloquium	_____ Practicum	_____ Research
	_____ 3 Seminar	_____ Studio	_____ Other – Please explain: _____	
f.	Identify a grading system:	<input checked="" type="checkbox"/> Letter (A, B, C, etc.)	<input type="checkbox"/> Pass/Fail	
g.	Number of credits:	3		
h.	Is this course repeatable for additional credit?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
	If YES: Maximum number of credit hours:	9		
	If YES: Will this course allow multiple registrations during the same semester?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
i.	Course Description for Bulletin:	A seminar in the social construction of geospatial technologies and the implications of their use. Topics may include crowd-sourcing, privacy and surveillance, open source software, code/space, censorship and control, copyright and locative media usage. May be repeated to a maximum of nine credits under different subtitles.		
j.	Prerequisites, if any:	_____		
k.	Will this course also be offered through Distance Learning?	YES ⁴ <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
l.	Supplementary teaching component, if any:	<input type="checkbox"/> Community-Based Experience	<input type="checkbox"/> Service Learning	<input type="checkbox"/> Both
3.	Will this course be taught off campus?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	

¹ Courses are typically made effective for the semester following approval. No course will be made effective until all approvals are received.

² The chair of the cross-listing department must sign off on the Signature Routing Log.

³ In general, undergraduate courses are developed on the principle that one semester hour of credit represents one hour of classroom meeting per week for a semester, exclusive of any laboratory meeting. Laboratory meeting, generally, represents at least two hours per week for a semester for one credit hour. (from SR 5.2.1)

⁴ You must *also* submit the Distance Learning Form in order for the proposed course to be considered for DL delivery.

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4.	Frequency of Course Offering.			
a.	Course will be offered (check all that apply):	<input checked="" type="checkbox"/> Fall	<input type="checkbox"/> Spring	<input type="checkbox"/> Summer
b.	Will the course be offered every year?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
	If NO, explain:	_____		
5.	Are facilities and personnel necessary for the proposed new course available?			
		YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
	If NO, explain:	_____		
6.	What enrollment (per section per semester) may reasonably be expected?	10		
7.	Anticipated Student Demand.			
a.	Will this course serve students primarily within the degree program?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>	
b.	Will it be of interest to a significant number of students outside the degree pgm?	YES <input type="checkbox"/>	NO <input type="checkbox"/>	
	If YES, explain:	_____		
8.	Check the category most applicable to this course:			
	<input type="checkbox"/> Traditional – Offered in Corresponding Departments at Universities Elsewhere			
	<input checked="" type="checkbox"/> Relatively New – Now Being Widely Established			
	<input type="checkbox"/> Not Yet Found in Many (or Any) Other Universities			
9.	Course Relationship to Program(s).			
a.	Is this course part of a proposed new program?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
	If YES, name the proposed new program:	_____		
b.	Will this course be a new requirement ⁵ for ANY program?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
	If YES ⁵ , list affected programs:	_____		
10.	Information to be Placed on Syllabus.			
a.	Is the course 400G or 500?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>	
	If YES, the <i>differentiation for undergraduate and graduate students must be included</i> in the information required in 10.b . You must include: (i) identification of additional assignments by the graduate students; and/or (ii) establishment of different grading criteria in the course for graduate students. (See <i>SR 3.1.4.</i>)			
b.	<input type="checkbox"/> The syllabus, including course description, student learning outcomes, and grading policies (and 400G-/500-level grading differentiation if applicable, from 10.a above) are attached.			

⁵ In order to change a program, a program change form must also be submitted.

NEW COURSE FORM

Signature Routing Log

General Information:

Course Prefix and Number: GEO 719

Proposal Contact Person Name: Matthew Zook Phone: 510-410-1410 Email: zook@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group	Date Approved	Contact Person (name/phone/email)	Signature
Chair, Geography	10/17/11	Sue Roberts / 7-2399 / sueroberts@uky.edu	
DUS, Geography	10/17/11	Michael Samers / 7-2931 / Michael.Samers@uky.edu	
College of A&S	11/08/11	Anna Bosch, Assoc Dean / 7-6689 / bosch@uky.edu	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ⁶
Undergraduate Council			
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:

⁶ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

GEO 719: GEOSPATIAL TECHNOLOGIES: (subt req) Emerging Virtual Geographies

Professor: Matthew Zook, Department of Geography, POT, 1475
Email: zook@uky.edu (best means of contact) Office Phone: 257-8334
Fall 2008: Mondays 12:00 pm - 2:45 pm, Classroom Bldg-Rm.305

Bulletin Course Description

A seminar in the social construction of geospatial technologies and the implications of their use. Topics may include crowd-sourcing, privacy and surveillance, open source software, code/space, censorship and control, copyright and locative media usage. May be repeated to a maximum of nine credits under different subtitles.

Overview

This seminar focuses on the diffusion of information technologies and their associated practices throughout the economy and society. While this provides the opportunity for revamping politics, culture, creativity and the economy the outcome is far from fixed. While the example of WikiLeaks illustrates the ability of individuals to sidestep traditional controls, the recent proposal of Google and Verizon regarding net neutrality issues highlights the continued power of entrenched actors. Geography runs throughout these debates and the rise of Neogeography/Volunteered Geographic Information (VGI) are particularly compelling topics for inquiry.

The course is divided roughly into two parts. The first focuses on meta-theories (mostly drawn from sociology and law) about the implications of these changes on how we use information in our daily lives. What can be done, what is allowed, what may be prohibited. + resistance and subversion. The second section considers the ramifications of this to space, place and cities. What kind of places (material and virtual) do we inhabit? Who gets to define these places and how do come to know them? What are the new opportunities and associated risks?

Student Learning Outcomes for any Geospatial technologies Seminar

After this class students will be able to:

- Describe the major social, economic and political implications of the use of geospatial technologies;
- Describe the history of the development of geospatial technologies;
- Analyze how geospatial technologies create space, place and mobilities; and
- Actively engage in ongoing debates among scholars about a range of issues of geospatial technologies.

Student Learning Outcomes for subtitle: Emerging Virtual Geographies

After this class students will be able to:

- Describe the diffusion of information technologies and their associated practices throughout the economy and society;
- Describe how this diffusion provides individuals with the ability to sidestep traditional controls and structures;
- Outline the debates and issues tied to the rise of Neogeography/Volunteered Geographic Information (VGI);
- Analyze a range of meta-theories (mostly drawn from sociology and law) on the implications for how we use information in our daily lives; and
- Analyze the ramifications of this to space, place and cities.

Required Materials

Most readings are online or will be provided. Check with me first but you may want to purchase the following:

Manuel Castells, 1996. *The Rise of the Network Society*
Goldsmith & Wu, 2006. *Who Controls the Internet*
Manuel Castells, 2009. *Communication Power*

Requirements/Grading

- **Class participation (10%)**: Let your inner geek out and talk.
- **Weekly Reactions to Readings (30%)**: 500 word (1 page) reaction pieces that critically engage and/or synthesize the readings into larger questions. These are due by midnight on the SUNDAY before class so I can have a chance to review them prior to meeting. We may try posting them via a course blog.
- **Course Paper (60%)**: A paper (~ 25 pages) on any theme approached in this class. Students are encouraged to conduct original research on any aspect of virtual geographies of interest to them (due December 13 by NOON). More details later in the semester. A short topic proposal (~2-3 pages) will be required in late October.

Grading Scale 100-90=A;89-80=B;79-70=C; <70 =F

1. August 29 – Class Intro

Weiser M, 1991, “The computer for the 21st century” *Scientific American* 265(3): 94-104
<http://sandbox.xerox.com/want/papers/ubi-sciam-sep91.pdf>

2. Sept 6 – LABOR DAY – NO CLASS

3. Sept 13 - Castells’ Theory of the Network Society

Manuel Castells, 1996. *The Rise of the Network Society*, pp. 1-25; 29-65; 168-172;195-200; 327-478
Manuel Castells, 1998. *End of Millennium*, pp. 335-360

4. Sept 20 - Wealth of Networks: The Networked Information Economy

Yochai Benkler, 2006. *The Wealth of Networks*, Chapters 1-4; pp. 1-127
Available online http://cyber.law.harvard.edu/wealth_of_networks/Main_Page

5. Sept 27 - Wealth of Networks: Individual Autonomy, Justice and Social Ties

Yochai Benkler, 2006. *The Wealth of Networks*, Chapters 5, 9 & 10; pp. 129-175;301-377
Available online http://cyber.law.harvard.edu/wealth_of_networks/Main_Page

6. Oct. 4 - The State, Law and Regulation

John Perry Barlow, A Declaration of the Independence of Cyberspace,
<http://homes.eff.org/~barlow/Declaration-Final.html>

Goldsmith & Wu, *Who Controls the Internet*, pp: 13-27; 49-85; 129-161
Milton Mueller has an interesting review of the book <http://internetgovernance.org/pdf/MM-goldsmithWu.pdf>

Lawrence Lessig, *Code 2.0*, Prefaces to the 1st and 2nd Editions, Chapters 1 & 2; ix-28
Available online at <http://codev2.cc/>

Jonathan Zittrain, *The Future of the Internet — and How to Stop It*

<http://futureoftheinternet.org/static/ZittrainTheFutureoftheInternet.pdf> (Intro, Chapters 1, 2 – p. 1-35)

Wikileaks <http://www.nytimes.com/2010/04/07/world/07wikileaks.html>

7. Oct. 11 - Innovation and Control

Yochai Benkler, 2006. *The Wealth of Networks*, pp. Chapter 11, pp. 383-459 - SKIM

Jonathan Zittrain, *The Future of the Internet and How to Stop It*,

<http://futureoftheinternet.org/static/ZittrainTheFutureoftheInternet.pdf> (Ch. 4-6 – pp. 63-148)

Introna and Nissenbaum 'Shaping the Web: Why the Politics of Search Engines Matters' (*The Information Society*, 16(3):1-17, 2000)

Tim Wu, Network Neutrality FAQ, http://www.timwu.org/network_neutrality.html

Google Plan Disillusions Some Allies

<http://www.nytimes.com/2010/08/16/technology/16google.html?pagewanted=print>

Google and Verizon in Talks on Web Priority

<http://www.nytimes.com/2010/08/05/technology/05secret.html?hp=&pagewanted=print>

Carlson M, 2006, "Tapping into TiVo: Digital video recorders and the transition from schedules to surveillance in television", *New Media & Society* 8(1): 97-115

Charette R N, 2005, "Why software fails", *IEEE Spectrum* 42(9): 42-49

8. Oct. 18 - Castells' Communication Power - I

Manual Castells, 2009. *Communication Power* Opening & Chps 1-3; pp. 1-189

9. Oct. 25 - Castells' Communication Power - II

Manual Castells, 2009. *Communication Power* Chapter 5 and Conclusion; pp. 299-432

10. Nov. 1 - Information, Space and Users

Graham, Stephen (1998) The end of geography or the explosion of place? Conceptualizing space, place and information technology. *Progress in Human Geography* 22(2): 165-185.

Thrift, N., and S. French. 2002. The Automatic Production of Space. *Transactions of the Institute of British Geographers* 27:309-335.

Graham, S. D. N. 2005. Software-Sorted Geographies. *Progress in Human Geography* 29 (5):562-580

Beer D, Burrows R, 2007, "Sociology and, of and in Web 2.0: Some initial considerations", *Sociological Research Online* 12(5) <www.socresonline.org.uk/12/5/17.html>

11. Nov. 8 - Neogeography and the GeoWeb - I

Harley, JB. 1989. Deconstructing the Map. *Cartographica* pp. 1-20.

Turner, A. (2006). An introduction to neogeography. Sebastapol, CA: O'Reilly Media. (**only** pp. 1-3 and 52-54).

Goodchild, M. (2007a). Citizens as sensors: The world of volunteered geography. *GeoJournal*, 6(4): 211-221.

Crampton, J. 2008. Cartography: maps 2.0. *Progress in Human Geography*. pp. 1–10

Elwood, S. 2008a: Volunteered geographic information: future research directions motivated by critical, participatory, and feminist GIS. *GeoJournal* 72, 173-183.

Zook, M. and M. Graham. (2007). The Creative Reconstruction of the Internet: Google and the Privatization of Cyberspace and DigiPlace. *GeoForum*.

12. Nov. 15 - Neogeography and the GeoWeb – II

Haklay M, 2010, "How good is volunteered geographical information? A comparative study of OpenStreetMap and Ordnance Survey datasets" *Environment and Planning B: Planning and Design* 37(4) 682 – 703

Crutcher, M. and M. Zook. (2009). Placemarks and Waterlines: Racialized Cyberscapes in Post Katrina Google Earth. *GeoForum*. 40(4). 523-534

Sarah Elwood and Agnieszka Leszczynski. 2010. Privacy, reconsidered: New representations, data practices, and the geoweb. *GeoForum* forthcoming.

Zook, M., Graham, M., Shelton, T. and S. Gorman. (2010). Volunteered Geographic Information and Crowdsourcing Disaster relief: A Case Study of the Haitian Earthquake. *World Health and Medical Policy*. Vol 2(2).

Twitter

<http://urbantick.blogspot.com/2010/01/new-city-landscapes-interactive.html>

<http://www.nytimes.com/external/readwriteweb/2010/03/29/29readwriteweb-boom-tweets--maps-swarm-to-pinpoint-a-myste-34026.html?src=tptw>

The FloatingSheep.org project...

13. Nov. 22 - Mobile Information Space

The readings for this week will come from those below but I have not yet selected the exact pages

- Martin Dodge. 2010. Code/Space. Urbis Research Forum Review Vol.1, Issue 2
- Dobson J E, Fisher P F, 2003, "Geoslavery", *IEEE Technology and Society Magazine*, Spring 47-52 <https://www.msu.edu/~kg/874/geoslavery.pdf>
- Townsend A M, 2000, "Life in the real-time city: Mobile telephones and urban metabolism", *Journal of Urban Technology* 7(2): 85-104
- Licoppe, C. 2004. 'Connected' Presence: The Emergence of a New Repertoire for Managing Social Relationships in a Changing Communication Technoscape', *Environment and Planning D: Society and Space* (2004) 22. Pages 135-156.
- Jonas Larsen; Kay W. Axhausen; John Urry. 2006. Geographies of Social Networks: Meetings, Travel and Communications *Mobilities* Volume 1, Issue 2. Pages 261 – 283
- Schwanen, T., and M.-P. Kwan. 2008. The Internet, mobile phone and space-time constraints. *Geoforum* 39 (3):1362-1377.
- Ratti C, Pulselli R M, Williams S, Frenchman D, 2006, "Mobile Landscapes: using location data from cell phones for urban analysis", *Environment and Planning B: Planning and Design* 33: 727-48
- Siiri Silm, Rein Ahas. 2010. The seasonal variability of population in Estonian municipalities. *Environment and Planning A*. Forthcoming.
- Greenfield, Adam. *Everywhere: The Dawning Age of Ubiquitous Computing*. <http://www.studies-observations.com/everyware/samples.html>
- 4sq @ Where2.0:
http://www.youtube.com/watch?v=LcaJGEGQJNU&feature=PlayList&p=7560B263F3C6B849&playnext_from=PL&index=3
- Gowalla @ Where2.0:
http://www.youtube.com/watch?v=jIaJtVRak10&feature=PlayList&p=7560B263F3C6B849&playnext_from=PL&index=31

14. Nov. 29 - Virtual and Synthetic Worlds

The readings for this week will come from those below but I have not yet selected the exact pages

- Edward Castranova, *Synthetic Worlds*, Selected Chapters
- Li F, Papagiannidis S, Bourlakis M, 2010, "Living in 'multiple spaces': extending our socioeconomic environment through virtual worlds" *Environment and Planning D* 28(3) 425 – 446
- Schroeder, Ralph. 200. Being There Together and the Future of Connected Presence. *Presence: Teleoperators and Virtual Environments* 2006 15:4, 438-454
- Gilmore, A. 2010. China's New Gold Farm. *Journal of Virtual World Research*. Vol 2(4).
- Mitham, N.. 2010. Virtual Goods: Good for Business? *Journal of Virtual World Research*. Vol 2(4).
- Kieger, S.. 2010. An Exploration of Entrepreneurship in Massively Multiplayer Online Role-Playing Games: Second Life® and Entropia Universe. *Journal of Virtual World Research*. Vol 2(4).
- Boellstorf, Tom. 2008. *Coming of Age in Second Life*

boyd d m, Ellison N B, 2007, "Social network sites: Definition, history, and scholarship",
Journal of Computer-Mediated Communication 13(1)
<<http://jcmc.indiana.edu/vol13/issue1/boyd.ellison.html>>

15. Dec. 6 - Augmented Urban Realities

*The readings for this week will drawn from those
below but as this is a topic I am actively working with
this semester the citations will likely evolve*

Jonathan Zittrain, Lost in the Cloud <http://www.nytimes.com/2009/07/20/opinion/20zittrain.html>

Mummidi, L. and Krumm, J. (2008). Discovering points of interest from users' map annotations.
GeoJournal 72(3-4), 215-27

Collins, C., and Nitins, T. (2009). Bringing the Internet down to earth: emerging spaces of locative media.
Record of the Communications Policy & Research Forum November 19-20, 2009. (See PDF page
146--)

Ishikawa, T., Murasawa, K., and Okabe, A. (2009). Wayfinding and art viewing by users of a mobile
system and guidebook. *Journal of Location Based Services* 3(4): 277-93.

My Augmented Reality paper to be finished this semester

Crang M, Graham S, 2007, "Sentient cities: ambient intelligence and the politics of urban space",
Information, Communication & Society 10(6): 789-817

16. Misc. Readings I'm interested in but didn't know where to put

Graham, S. (Ed.). 2009. *Disrupted Cities: When Infrastructure Fails*

Manovich, Lev. 2008. *When Software Takes Command*.

<http://lab.softwarestudies.com/2008/11/softbook.html>

Kitchin and Dodge. 2010. *Code/Space*

Spiekermann S, Pallas, F, 2006, "Technology paternalism - wider implications of ubiquitous
computing", *Poiesis & Praxis: International Journal of Ethics of Science and Technology
Assessment* 4(1): 6-18

Course Policies:

Submission of Assignments:

All projects, papers and assignments are due at the beginning of lecture on the day indicated.
Assignments turned in after this time (including at the end of class) will be docked 10 percent for every
day late (including weekends). Assignments will NOT be accepted beyond five days after the due date.

Attendance Policy.

Attendance is crucial to your success in this class but role will NOT be regularly taken. Excused
absences will be made, in accordance with Senate Policy on excused absences.

Excused Absences:

Students need to notify the professor of absences prior to class when possible. S.R. 5.2.4.2 defines the
following as acceptable reasons for excused absences: (a) serious illness, (b) illness or death of family
member, (c) University-related trips, (d) major religious holidays, and (e) other circumstances found to fit
"reasonable cause for nonattendance" by the professor.

Students anticipating an absence for a major religious holiday are responsible for notifying the instructor in writing of anticipated absences due to their observance of such holidays no later than the last day in the semester to add a class. Information regarding dates of major religious holidays may be obtained through the religious liaison, Mr. Jake Karnes (859-257-2754).

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed (excused or unexcused) per university policy.

Verification of Absences:

Students may be asked to verify their absences in order for them to be considered excused. Senate Rule 5.2.4.2 states that faculty have the right to request “appropriate verification” when students claim an excused absence because of illness or death in the family. Appropriate notification of absences due to university-related trips is required prior to the absence.

Academic Integrity:

Per university policy, students shall not plagiarize, cheat, or falsify or misuse academic records. Students are expected to adhere to University policy on cheating and plagiarism in all courses. The minimum penalty for a first offense is a zero on the assignment on which the offense occurred. If the offense is considered severe or the student has other academic offenses on their record, more serious penalties, up to suspension from the university may be imposed.

Plagiarism and cheating are serious breaches of academic conduct. Each student is advised to become familiar with the various forms of academic dishonesty as explained in the Code of Student Rights and Responsibilities. Complete information can be found at the following website:

<http://www.uky.edu/Ombud>. A plea of ignorance is not acceptable as a defense against the charge of academic dishonesty. It is important that you review this information as all ideas borrowed from others need to be properly credited.

Part II of *Student Rights and Responsibilities* (available online <http://www.uky.edu/StudentAffairs/Code/part2.html>) states that all academic work, written or otherwise, submitted by students to their instructors or other academic supervisors, is expected to be the result of their own thought, research, or self-expression. In cases where students feel unsure about the question of plagiarism involving their own work, they are obliged to consult their instructors on the matter before submission.

When students submit work purporting to be their own, but which in any way borrows ideas, organization, wording or anything else from another source without appropriate acknowledgement of the fact, the students are guilty of plagiarism. Plagiarism includes reproducing someone else’s work, whether it be a published article, chapter of a book, a paper from a friend or some file, or something similar to this. Plagiarism also includes the practice of employing or allowing another person to alter or revise the work which a student submits as his/her own, whoever that other person may be.

Students may discuss assignments among themselves or with an instructor or tutor, but when the actual work is done, it must be done by the student, and the student alone. When a student’s assignment involves research in outside sources of information, the student must carefully acknowledge exactly what, where and how he/she employed them. If the words of someone else are used, the student must put quotation marks around the passage in question and add an appropriate indication of its origin. Making simple changes while leaving the organization, content and phraseology intact is plagiaristic. However, nothing in these Rules shall apply to those ideas which are so generally and freely circulated as to be a part of the public domain (Section 6.3.1).

Please note: Any assignment you turn in may be submitted to an electronic database to check for plagiarism.

Accommodations due to disability:

If you have a documented disability that requires academic accommodations, please see me as soon as possible during scheduled office hours. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (Room 2, Alumni Gym, 257-2754, email address: jkarnes@email.uky.edu) for coordination of campus disability services available to students with disabilities.