

# GEOGRAPHY 874: GIScience SEMINAR

Course Syllabus

**WHO:** Professor: Kirk Goldsberry

**WHAT:** GIScience - In this seminar we will study geographically oriented information processing systems. We will review and explore previous, current, and future GIScience research. We will be reading a collection of papers produced by key researchers and practitioners from around the world in various cognate fields of study.

**WHEN:** Seminar Sessions – Tuesdays 5:00PM – 7:50PM, 120 Geography Building

**OFFICE HOURS:** Thursday 1:30PM – 3:30PM, and by appointment

**CONTACT:** Kirk - kg@msu.edu

## REQUIRED READINGS:

Readings will generally consist of peer-reviewed journal articles taken from leading GIScience journals. Copies of the articles will be distributed the week before they are discussed.



## PRESENTATIONS:

Each of you will make two types of presentations throughout the semester. Article presentations are simply summaries of one of the assigned readings in which you will lead and moderate a discussion. Research presentations are summaries of your individual GIScience research projects. These will offer you a chance to improve your presentation skills and to get valuable feedback from your peers.

**WEBSITE:** <http://www.msu.edu/~kg/874home.htm>

<b>EVALUATION:</b>	Article Presentations	20%	
	Research Presentations	20%	
	Term Paper	40%	Due Last week of classes
	Attendance	10%	Percentage of 13 or 14 sessions attended
	Participation	10%	Discussion Participation

**COURSE POLICIES:** I expect everyone to attend all sessions. Your attendance and participation in the course are critical to its success and therefore are required. The best way to do poorly in this class is to not attend the sessions. Lateness on assignments will cost you 10% each day, starting at the exact beginning of your lab session. This rule is not flexible. Please inform me in advance if you will miss a session or will have a personal situation that will affect your attendance or performance.

DATE	TOPIC	READINGS*	LEADERS?
1-13	Introduction	Goodchild 1992 Beyond Mapping Ch.1	
1-20	History of GIS	Tobler (1959), TBD,	
1-27	Seminal Contributions		
2-3	Research Priorities for GIScience	UCGIS (1996)	
2-10	Theoretical Perspectives and Data Mining	TBD Miller (2007)	
2-17	Analytical Cartography	Tobler (1979) Moellering	
2-24	Interpolation	Armstrong (2000) Kyriakidis (2004)	
3-3	Time Geography	Kwan 2000 Harvey Miller Papers	
3-17	GeoVisualization	MacEachren et al (1992) TBD	
3-24	<i>No Class: AAG</i>		
3-31	Dynamic Depictions of Geographic Information	Tversky Dibiase Resnik	
4-7	Group Projects	The Elements of Style Tufte Powerpoint	
4-14	Peer Review I	TBD	
4-21	Peer Review II	None	
4-28	Individual Presentations	None	

\*This is a tentative reading list. Readings always are subject to change to accommodate individual or collective preferences.