
ELMHURST COLLEGE
GEO 207-01

Introduction to Geographic Information Systems (GIS)

**GEO 207-01 – (1.0 credit with lab)
FALL 2009**

Class meeting: MWF 10:30-11:35 PM; Lab: W 2:15-4:35 PM; all in Daniels 204

Professor: Dr. Rich Schultz
Asst. Professor, Geosciences and GIS

Office: Daniels 316
Voicemail: (630) 617-3128
E-mail: richs@elmhurst.edu

Office Hours: M 9:00-10:30 AM;
T 9:15-10:30 AM;
W 9:00-10:30 PM
or by Appointment

Required Texts:

- ***GIS Tutorial*, Third Edition: Workbook for ArcView 9, by W. L. Gorr and K. S. Kurland, ISBN: 9781589482050, 3rd edition, Publisher – ESRI Press, 2008. (Bring this book to class on days when we have assignments from it)**
- **Designing Better Maps, by Cynthia Brewer, ISBN: 9781589480896, Publisher – ESRI Press, 2005. (This book is mostly for reference – not necessary to bring to class).**
- A **\$50.00** materials fee is required (as per the College Catalog course description) in the form of cash or a check made out to “*Elmhurst College*”. The fee covers your electronic lab manual, GIS software (evaluation version), plotter supplies, computer usage, printing supplies (cartridges and paper), and CDs/DVDs.
- It is *highly* recommended that you purchase a Flash drive of at least 2 Gb (4 Gb is better) of memory. You will **NOT** be able to save to the hard drive on any computer either in room 204 or 306.

Course Description:

GEO 207-01: Introduction to Geographic Information Systems (GIS)

An introduction to the art and science of computer cartography and design methods that enhance visual communication. This course examines the processing, compilation, and symbolization of spatial data used to create thematic maps. Windows-based standard mapping and desktop publishing software are used. *Required materials fee.*

Overarching Goals as a Gateway to Learning:

1. Instill a sense of lifelong learning
2. Promote effective visual communication skills
3. Develop an appreciation for spatial applications and thinking in many disciplines

COURSE LEARNING OBJECTIVES:

After successfully completing this course, a student should be able to:

1. Understand the major principles of cartographic design and spatial concepts
2. Effectively communicate visually with map users of various disciplines
3. Have a fundamental knowledge of standard GIS software: ArcGIS Desktop 9.3.1
4. Develop skills in acquiring, manipulating, and summarizing attribute and spatial geographic data using GIS principles

ACADEMIC INTEGRITY: The very nature of higher education requires that students adhere to accepted standards of academic integrity. Therefore, Elmhurst College has adopted a Code of Academic Conduct and a Statement of Student academic Integrity. These are present in the College Catalog and/or E-Book. Among the violations of academic integrity listed and defined are: cheating, plagiarism, falsification and fabrication, abuse of academic materials, complicity in academic dishonesty, falsification of records and official documents, personal misrepresentation and proxy, and bribes, favors, and threats. It is the student's responsibility to be aware of behaviors that constitute academic dishonesty and carefully read and understand the E-Book.

METHOD OF INSTRUCTION: Audio-visual materials such as PowerPoint™ presentations, animations, and/or DVDs will supplement classroom lectures. Interactive exercises will emphasize practical, hands-on GIS experience and learning proper techniques for creating technically correct maps as well as data manipulation.

A number of exercises and activities involve the introduction of various cultures and peoples of other nations. As part of the College's continuing efforts to embrace cultural diversity, numerous international examples will be provided in this course.

COURSE PRACTICES REQUIRED:

1. Students are expected to read all assigned material and/or handouts BEFORE coming to class.
2. A late penalty will be assessed for homework turned in past the due date for any reason, including absences due to illness. Students must request assignment due date extensions from the instructor and communicate frequently. Once students have received their graded assignments back, one can no longer submit that assignment for *any* credit.
3. Students are expected to take all exams during the scheduled times. It is the student's responsibility to notify the instructor PRIOR TO MISSING AN EXAM. ARRANGEMENTS MUST BE MADE WITH YOUR INSTRUCTOR TO MAKE UP AN EXAM. The exam must be made up

within 1 week. **Makeup exams are significantly different than the regularly scheduled exams in terms of format.**

4. Exams and homework assignments in this course are largely based on lecture material presented in class, readings, and online materials discussed in class.
5. Attendance is **mandatory**. In the event of absences, students are responsible for any classroom material, or information regarding schedule changes that were covered during class. Be sure to contact a fellow student and/or consult the BlackBoard site for the course to find out what you missed during your absence. Students are responsible for keeping track of and obtaining any handouts or assignments that they missed during their absence.
6. Students are expected to participate *equally* in any group work if assignment is part of a group effort.
7. There is no extra credit of any type in this course.
8. Finally, I do NOT discuss grades, or any issues pertaining to grades, via e-mail because of privacy issues. You must make an appointment with me if you want to discuss anything concerning grades or scores on assignments/exams.

INTERNET AVAILABILITY OF CLASSROOM HANDOUTS: This course emphasizes technology and therefore, many of the course materials for this course are posted on the BlackBoard site for the course. **Course web site:** <http://bb.elmhurst.edu>

EVALUATION METHODS: Your course grade will be based upon a numerical points system for these categories: **THESE ARE APPROXIMATE AND MAY CHANGE!**

- 1) **Lecture Exams** 4 unit exams: **INCLUDING** A COMPREHENSIVE FINAL EXAM (100 points each x 4 = 400 points)
 - 2) **Lab assignments** (300 points)*
 - 3) **Class participation/attendance** (100 points)
 - 4) **Final Project** (100 points)
- for a total of approximately 900 possible points.

Course Breakdown:

- Exams: 44%; Lab Assignments: 33%; Final Project: 12%; Attendance/Class Participation: 11%.

Assignments comprise a major portion (one-third) of the course and will be assessed using the following system for the 30 assignments:

<u>No. of Assignments Submitted</u>	<u>Points Earned</u>	<u>Percentage</u>	<u>Letter Grade</u>
27-30	270-300	89.5-100%	A
24-26	240-269	79.5-89.4%	B
21-23	210-239	69.5-79.4%	C
18-20	178-209	59.5-69.4%	D

A student must complete a minimum of 18 assignments to pass the course.

Attendance and Preparation:

This is a computer-based activities course and is designed for structured problem-solving activities in a hands-on setting. Essentially, since there are a total of four class meetings per week (including lab times), over 15 weeks, we meet approximately 60 times during the term. Attendance is worth 100 points. Thus, each time a student misses class, a total of 1.7 points is subtracted from their overall point total.

Dates of Exams: APPROXIMATE DATES - THESE MAY CHANGE!

Exam I: Friday, Sept. 18

Exam II: Wednesday, Oct. 7 (Lab time)

Exam III: Monday, Nov. 2

Comprehensive Final Exam: (College scheduled): Wednesday, Dec. 16: 10:30 AM

Letter grades for individual assignments are essentially meaningless - only the **total** number of points earned count toward your final tally for the course grade. Final letter grades will be based upon a straight scale:

- 89.5-100%=A;
- 79.5-89.4%=B;
- 69.5-79.4%=C;
- 59.5-69.4%=D;
- <59.5%=F

You must earn at least 59.5% in order to pass the course. Lecture exams will consist of an in-class exam worth 100 points comprised of matching, fill-in-the-blank, short answer, labeling of diagrams, and essay questions. Make up exams may **ONLY** be taken with the prior permission of your instructor, and usually no later than 1 week after the original exam date.

HOMEWORK ASSIGNMENTS:

Because a lab-based course requires you to learn a great deal of new vocabulary, your homework will consist primarily of geography-based readings, problem-solving, and map creation activities. It is to your advantage to study the readings before we discuss them in class and not waiting until the exam to cover all the readings.

OTHER COURSE INFORMATION

Elmhurst College will make reasonable accommodations for persons with documented disabilities. If you have a disability, which may have some impact on your work in this course, please contact Ms. Maureen Connolly, (630) 617-3753 so that it may be documented.

Elmhurst College does not discriminate on the basis of race, color, creed, religion, national origin, disability, age, sex, sexual orientation, or marital status in admission to and participation in its education program, College activities and services, or employment practices. The College does not tolerate sexual harassment or sexual assault by or of its students or employees.

Additional Information:

The following are a few key points to remember as part of this class:

1. Much of what will be submitted for grading will be submitted electronically, so be aware of implications that may have. It must be your own work.
2. All work to be turned in, although occasionally accomplished through group effort and/or collaborative learning, must be on an individual basis. Everyone must turn in the assignment for an individual grade.
3. Do not bring food into the classroom/lab. The facility does not allow foodstuffs or tobacco products in the building. Drinks are NOT acceptable near computers.
4. **Under NO circumstances are grades or issues related to grades addressed via e-mail. If you have any questions about grades, DO NOT E-MAIL! You must visit me during my office hours or make an appointment to talk about grades *in person*.**

Active Learning and GIS Philosophy

GIS and geospatial technologies are best learned by *doing* it, not by *studying* it. The critical focal point of this course is spatial thinking and awareness. The best approach is an active one designed for you to *experience* spatial concepts. Theory is best introduced sparingly and integrated with experience. Hence, this course is heavy on experience and light on theory. Since independent work and projects are critical to the learning of spatial concepts, this course includes a wealth of exercises in which the student must find solutions independently with (and without) a “cookbook” or recipe of steps. This course also requires students to design and carry out an independent research project as a culmination at the end of the course.

Organizational Outline of Course: A Blueprint for Spatial Thinking and Success

- Part I. Spatial Concepts
 - Module 1. Intro. to Spatial Concepts
 - Module 2. Spatial Awareness: Location and Patterns
 - Module 3. The Global Positioning System (GPS)
- Part II. Map Basics
 - Module 4. Projections, Scales, and Coordinate Systems
 - Module 5. Cartographic Map Design
- Part III. Geographic Information Systems (GIS)
 - Module 6. What is GIS?
- Part IV. GIS Applications
- Part V. GIS Project

**Tentative Course Schedule/Calendar:
As of 8/31/09**

<u>Week</u>	<u>Session</u>	<u>Date</u>	<u>Activity/Topic</u>	<u>Readings:</u> (GIS=GIS Tutorial; DBM = Designing Better Maps) All Readings BEFORE class meets	<u>Lab Assignments and Homework:</u> GISS=Schultz Lab Manual GIS: GIS Tutorial	<u>Due Dates for labs and assign- ments:</u>
1	1	Mon. Aug. 31	Intro. to syllabus Part I. Spatial Concepts Module 1: Intro. to spatial concepts and Thinking	<ul style="list-style-type: none"> ▪ Lecture 1 		
1	2, 3	Wed. Sept. 2 (Lecture and Lab time)	Create a Mashup presentation with GE or ArcGIS Explorer 900 (AGX900)	<ul style="list-style-type: none"> ▪ GE Tutorial 	<ul style="list-style-type: none"> ▪ GISS: Lab 1: Overview of the Earth ▪ Work on mashup presentation in lab 	<ul style="list-style-type: none"> ▪ Friday, Sept. 4
1	4	Fri. Sept. 4	5-minute Presentations in class			<ul style="list-style-type: none"> ▪ Friday, Sept. 4
2	5	Mon., Sept. 7	NO CLASS – LABOR DAY			
2	6, 7	Wed., Sept. 9 (Lecture and Lab)	Module 2: Spatial Awareness: Location and Patterns		<ul style="list-style-type: none"> ▪ GISS: Lab 2: Google Maps to Google Earth ▪ GISS: Lab 3: Digital Earth 	<ul style="list-style-type: none"> ▪ Friday, Sept. 11 (both due at end of class)
2	8	Fri., Sept. 11	Module 3: The Global Positioning System (GPS) GPS Exercise	<ul style="list-style-type: none"> ▪ Lecture 2 	<ul style="list-style-type: none"> ▪ GISS: Lab 4: GPS 	<ul style="list-style-type: none"> ▪ Mon., Sept. 14
3	9	Mon., Sept. 14	Part II. Map Basics Module 4: Map Basics Projections, Scales, and Coordinate Systems	<ul style="list-style-type: none"> ▪ Lecture 3 	<ul style="list-style-type: none"> ▪ GISS: Lab 5: Map Skills 	<ul style="list-style-type: none"> ▪ Wed., Sept. 16
3	10,11	Wed., Sept. 16 (Lecture and Lab)	Module 5: Cartographic Map Design Review for Exam I	<ul style="list-style-type: none"> ▪ Lectures 4, 5 ▪ Read DBM pp. 2-37. ▪ Read "Intro. to Cartography" .pdf file 	<ul style="list-style-type: none"> ▪ GISS: Lab 6: Critiquing a Map 	<ul style="list-style-type: none"> ▪ Fri., Sept. 18
3	12	Fri., Sept. 18	<ul style="list-style-type: none"> ▪ Exam I 		Covers: <ul style="list-style-type: none"> ▪ Lectures 1-5 ▪ DBM, pp. 2-37 ▪ Labs 1-5 in GISS 	
4	13	Mon, Sept. 21	<ul style="list-style-type: none"> ▪ Review of Exam I Part III. GIS <ul style="list-style-type: none"> ▪ Module 6: What is GIS? ▪ ESRI Software Family, Introducing AEJEE for Wed. and Friday 	<ul style="list-style-type: none"> ▪ Lectures 6, 7, 8 		
4	14, 15	Wed., Sept. 23	No formal class meeting – Work on: <ul style="list-style-type: none"> ▪ GISS: Lab 7: How Can GIS Help Us? ▪ GISS: Lab 8: Analyzing Hurricanes ▪ GISS: Lab 9: Mineral Exploration 		<ul style="list-style-type: none"> • GISS: Lab 7: How Can GIS Help Us? ▪ GISS: Lab 8: Analyzing Hurricanes ▪ GISS: Lab 9: Mineral Exploration 	<ul style="list-style-type: none"> ▪ ALL labs due on Mon., Sept. 28

4	16	Fri., Sept. 25	<p>No formal class meeting – Work on:</p> <ul style="list-style-type: none"> ▪ GISS: Lab 7: How Can GIS Help Us? ▪ GISS: Lab 8: Analyzing Hurricanes ▪ GISS: Lab 9: Mineral Exploration 		<ul style="list-style-type: none"> • GISS: Lab 7: How Can GIS Help Us? ▪ GISS: Lab 8: Analyzing Hurricanes ▪ GISS: Lab 9: Mineral Exploration 	<ul style="list-style-type: none"> ▪ ALL labs due on Mon., Sept. 28
5	17	Mon., Sept. 28	<ul style="list-style-type: none"> ▪ Work on GIST: Ch. 1: Introduction -Using ArcMap ▪ Work on GISS: Lab 10: ArcMap: The Basics 	<ul style="list-style-type: none"> ▪ Read GIST: Ch. 1 (pp. 1-37) ▪ Lecture 9 	<ul style="list-style-type: none"> ▪ GIST: Ch. 1 Assignment 1-1 and 1-2 ▪ GISS: Lab 10: ArcMap 	<ul style="list-style-type: none"> ▪ Due Wed., Sept. 30 at <u>end</u> of lab
5	18, 19	Wed., Sept. 30 (Lecture and Lab)	<ul style="list-style-type: none"> ▪ Work on GIST Ch. 1 ▪ Work on GISS: Lab 11: Map Symbology (due at the end of lab on Wed.) 	<ul style="list-style-type: none"> ▪ Read GIST: Ch. 1 (pp. 1-37) ▪ Lecture 9 	<ul style="list-style-type: none"> ▪ GIST: Ch. 1 Assignment 1-1 and 1-2 ▪ GISS: Lab 11: Map Symbology 	<ul style="list-style-type: none"> ▪ Due Wed., Sept. 30 at <u>end</u> of lab
5	20	Fri., Oct. 2	<ul style="list-style-type: none"> ▪ Work on GISS: Lab 110: Map Symbology ▪ Review for Exam I 		<ul style="list-style-type: none"> ▪ GISS: Lab 12: Map Symbology 	<ul style="list-style-type: none"> ▪ Wed., Oct. 7
6		Mon., Oct. 5	<ul style="list-style-type: none"> ▪ NO CLASS: ILGISA Conference 			
6	21, 22	Wed., Oct. 7 (Lecture and Lab)	<ul style="list-style-type: none"> ▪ Lecture time: Finish labs/study for Exam II ▪ Lab time: EXAM II 		<p>Covers:</p> <ul style="list-style-type: none"> ▪ Lectures 6-9, ▪ GIST: Ch. 1 	
6	23	Fri., Oct. 9	<ul style="list-style-type: none"> ▪ Review of Exam II ▪ Work on GIST Ch. 2: Map Design ▪ Work on GIST Ch. 3: Outputs 	<ul style="list-style-type: none"> ▪ Read GIST Ch. 2 (pp. 41-71) ▪ Lecture 10 ▪ Read GIST Ch. 3 (pp. 75-101) ▪ Lecture 11 	<ul style="list-style-type: none"> ▪ GIST Ch. 2 Assignments 2-1 and 2-2 ▪ GIST: Ch. 3 Assignments 3-1 and 3-2 	<ul style="list-style-type: none"> ▪ Due Wed., Oct. 14
7	24	Mon., Oct. 12	<ul style="list-style-type: none"> ▪ NO CLASS – FALL BREAK 			
7	25, 26	Wed., Oct. 14 (Lecture and Lab time)	<ul style="list-style-type: none"> ▪ Work on GIST: Ch. 4: Geodatabases ▪ Work on GIST: Ch. 5: Importing Data 	<p>Read GIST:</p> <ul style="list-style-type: none"> ▪ Ch. 4 (pp. 105-133) ▪ Lecture 12 ▪ Ch. 5: (pp. 139-185) ▪ Lecture 13 	<ul style="list-style-type: none"> ▪ GIST: Ch. 4 Assignments 4-1 and 4-2 ▪ GIST: Ch. 5 Assignments 5-1 and 5-2 	<ul style="list-style-type: none"> ▪ Due Fri., Oct. 16
7	27	Fri., Oct. 16	<ul style="list-style-type: none"> ▪ Work on GIST: Ch. 4: Geodatabases ▪ Work on GIST: Ch. 5: Importing Data 	<p>Read GIST:</p> <ul style="list-style-type: none"> ▪ Ch. 4 (pp. 105-133) ▪ Lecture 12 ▪ Ch. 5: (pp. 139-185) ▪ Lecture 13 	<ul style="list-style-type: none"> ▪ GIST: Ch. 4 Assignments 4-1 and 4-2 ▪ GIST: Ch. 5 Assignments 5-1 and 5-2 	<ul style="list-style-type: none"> ▪ Due Fri., Oct. 16 (at end of class time)
8	28	Mon., Oct. 19	<ul style="list-style-type: none"> ▪ Work on “Geocoding in ArcGIS” (Exercises #1-3) ▪ Work on GIST: Chap. 7: Geocoding 	<ul style="list-style-type: none"> ▪ Read GIST Ch. 7: pp. 231-263. ▪ Lecture 14 	<ul style="list-style-type: none"> ▪ “Geocoding in ArcGIS” ▪ GIST: Ch. 7: Geocoding Assignments 7-1 and 7-2 	<ul style="list-style-type: none"> ▪ Fri., Oct. 23
8	30	Wed., Oct. 21 (Lecture and Lab)	<ul style="list-style-type: none"> ▪ Work on “Geocoding in ArcGIS” (Exercises #1-3) ▪ Work on GIST: Chap. 7: Geocoding 	<ul style="list-style-type: none"> ▪ Read GIST Ch. 7: pp. 231-263. ▪ Lecture 14 	<ul style="list-style-type: none"> ▪ “Geocoding in ArcGIS” ▪ GIST: Ch. 7: Geocoding Assignments 7-1 and 7-2 	<ul style="list-style-type: none"> ▪ Fri., Oct. 23
8	31	Fri., Oct. 23	<ul style="list-style-type: none"> ▪ Work on “Geocoding in ArcGIS” (Exercises #1-3) ▪ Work on GIST: Chap. 7: Geocoding 	<ul style="list-style-type: none"> ▪ Read GIST Ch. 7: pp. 231-263. ▪ Lecture 14 	<ul style="list-style-type: none"> ▪ “Geocoding in ArcGIS” ▪ GIST: Ch. 7: Geocoding Assignments 7-1 	<ul style="list-style-type: none"> ▪ Fri., Oct. 23

						and 7-2	
9	32	Mon., Oct. 26	<ul style="list-style-type: none"> ▪ Work on GIST: Ch. 8: Spatial Data Processing ▪ Work on "Geoprocessing in ArcGIS " Tutorial 	<ul style="list-style-type: none"> ▪ Read GIST: Ch. 8: pp. 269-296 ▪ Lecture 15 	<ul style="list-style-type: none"> ▪ GIST: Ch. 8: Assignments 8-1 and 8-2 ▪ "Geoprocessing in ArcGIS" Tutorial (Exercises #1-3) 	<ul style="list-style-type: none"> ▪ Due Fri., Oct. 30 	
9	33, 34	Wed., Oct. 28 (Lecture and Lab)	<ul style="list-style-type: none"> ▪ Work on GIST: Ch. 8: Spatial Data Processing ▪ Work on "Geoprocessing in ArcGIS " Tutorial 	<ul style="list-style-type: none"> ▪ Read GIST: Ch. 8: pp. 269-296 ▪ Lecture 15 	<ul style="list-style-type: none"> ▪ GIST: Ch. 8: Assignments 8-1 and 8-2 ▪ "Geoprocessing in ArcGIS " Tutorial (Exercises #1-3) 	<ul style="list-style-type: none"> ▪ Due Fri., Oct. 30 (end of class on Fri.) 	
9	35	Fri., Oct. 30	<ul style="list-style-type: none"> ▪ Work on GIST: Ch. 9: Spatial Analysis ▪ Review for Exam III 	<ul style="list-style-type: none"> ▪ Read GIST: Ch. 9: pp. 303-332 ▪ Lecture 16 	<ul style="list-style-type: none"> ▪ GIST: Ch. 9 Spatial Analysis (Assignments 9-1 and 9-2) 	<ul style="list-style-type: none"> ▪ Mon., Nov. 2 	
10	36	Mon., Nov. 2	<ul style="list-style-type: none"> • Exam III (Will include a Practical GIS problem) 		<ul style="list-style-type: none"> ▪ Covers: GIST: Chaps.: 2,3,4,5, 7, 8, and 9 		
10	37	Wed., Nov. 4 (Lecture and Lab)	<ul style="list-style-type: none"> ▪ Review of Exam III • Part IV. GIS Applications ▪ Work on GISS: Lab 12: Mapping Tectonics ▪ Work on GISS: Lab 13: A Global Perspective of Climate 		<ul style="list-style-type: none"> ▪ GISS: Lab 12: Mapping Tectonics ▪ GISS: Lab 13: A Global Perspective of Climate 	<ul style="list-style-type: none"> ▪ Fri., Nov. 6 (end of class on Fri.) 	
10	38	Fri., Nov. 6	<ul style="list-style-type: none"> ▪ Work on GISS: Lab 12: Mapping Tectonics ▪ Work on GISS: Lab 13: A Global Perspective of Climate (both due at end of class) ▪ Work on GISS: Lab 14: Population Growth 		<ul style="list-style-type: none"> ▪ GISS: Lab 12: Mapping Tectonics ▪ GISS: Lab 13: A Global Perspective of Climate ▪ GISS: Lab 14: Population Growth 	<ul style="list-style-type: none"> ▪ Fri., Oct. 31 (end of class on Fri.) ▪ Mon., Nov. 9 	
11	39	Mon., Nov. 9	<ul style="list-style-type: none"> • Work on GISS: Lab 15: International Political Boundaries 		<ul style="list-style-type: none"> ▪ GISS: Lab 15: International Boundaries 	<ul style="list-style-type: none"> ▪ Due Fri., Nov. 13 	
11	40, 41	Wed., Nov. 11 (Lecture and Lab)	<ul style="list-style-type: none"> ▪ Work on Lab 15: International Political Boundaries (due at end of class on Fri.) ▪ Work on GISS: Lab 16: Demographic Trends in Chicago (due Mon., Nov. 16) ▪ Work on GISS: Lab 17: Mapping Crime (due on Mon., Nov. 16) 		<ul style="list-style-type: none"> ▪ GISS: Lab 15: International Boundaries ▪ GISS: Lab 16: Demographic Trends in Chicago ▪ GISS: Lab 17: Mapping Crime 	<ul style="list-style-type: none"> ▪ Lab 15 due Fri., Nov. 13 ▪ Labs 16 and 17 due Monday, Nov. 16 	
11	42	Fri., Nov. 13	<ul style="list-style-type: none"> ▪ Work on Lab 15: International Political Boundaries (due at end of class on Fri.) ▪ Work on GISS: Lab 16: Demographic Trends in Chicago (due Mon., Nov. 16) ▪ Work on GISS: Lab 17: Mapping Crime (due on Mon., Nov. 16) 		<ul style="list-style-type: none"> ▪ GISS: Lab 15: International Boundaries ▪ GISS: Lab 16: Demographic Trends in Chicago ▪ GISS: Lab 17: Mapping Crime 	<ul style="list-style-type: none"> ▪ Lab 15 due Fri., Nov. 13 ▪ Labs 16 and 17 due Monday, Nov. 16 	
12	43	Mon., Nov. 16	<ul style="list-style-type: none"> ▪ Work on GISS: Lab 18: Visualizing AIDS 		<ul style="list-style-type: none"> ▪ GISS: Lab 18: Visualizing AIDS 	<ul style="list-style-type: none"> ▪ Due Fri., Nov. 20 	
12	43, 44	Wed., Nov. 18 (Lecture and Lab)	<ul style="list-style-type: none"> ▪ Work on GISS: Lab 19: "Problems in Happyville?" ▪ Work on GISS: Lab 20: Geocoding in Happyville 		<ul style="list-style-type: none"> ▪ GISS: Lab 19: "Problems in Happyville" ▪ GISS: Lab 20: Geocoding in Happyville 	<ul style="list-style-type: none"> ▪ Due Mon., Nov. 23 	

12	45	Fri., Nov. 20	<ul style="list-style-type: none"> ▪ No formal class meeting ▪ Work on GISS: Lab 19: "Problems in Happyville?" ▪ Work on GISS: Lab 20: Geocoding in Happyville 		<ul style="list-style-type: none"> ▪ GISS: Lab 19: "Problems in Happyville" ▪ GISS: Lab 20: Geocoding in Happyville 	<ul style="list-style-type: none"> ▪ Due Mon., Nov. 23
13	46	Mon., Nov. 23	<ul style="list-style-type: none"> ▪ Part V. GIS Project ▪ Introduction of Projects 			
13	47, 48	Wed., Nov. 25 (Lecture and Lab)	<ul style="list-style-type: none"> ▪ Work on projects 		<ul style="list-style-type: none"> ▪ NO LATE WORK ACCEPTED AFTER CLASS TIME TODAY 	
13	49	Fri., Nov. 27	<ul style="list-style-type: none"> ▪ NO Class - Thanksgiving 			
14	50	Mon., Nov. 30	<ul style="list-style-type: none"> ▪ Work on projects 			
14	51, 52	Wed., Nov. Dec. 2 (Lecture and Lab time)	<ul style="list-style-type: none"> ▪ Work on projects 			
14	53	Fri., Dec. 4	<ul style="list-style-type: none"> ▪ Work on projects 			
15	54	Mon., Dec. 7	<ul style="list-style-type: none"> ▪ Work on projects 			
15	55, 56	Wed., Dec. 9 (Lecture and Lab time)	<ul style="list-style-type: none"> ▪ Work on projects ▪ Final presentations during lab time 			
15	57	Fri., Dec.11	<ul style="list-style-type: none"> ▪ Review for Final Exam 			
16	58	Mon., Dec. 14	<ul style="list-style-type: none"> ▪ Reading Day ▪ NO CLASS 			
16	59	Wed., Dec. 16	<ul style="list-style-type: none"> ▪ Comprehensive Final Exam (at College scheduled time: 10:30 AM) 			

*Note: Final Grades will be made available on BlackBoard site by
Monday, December 21, 2009.

Lab Assignments and Due Dates:

GIST=GIS Tutorial, 3rd edition

GISS=Schultz Lab Manual

Note: ALL assignment answers are to be submitted electronically in the BlackBoard Digital DropBox.

<u>Assignment #</u>	<u>Text/Source</u> <i>GIST=GIS Tutorial, 3rd edition</i> <i>GISS=Schultz Lab Manual</i>	<u>Assignment/Exercise</u>	<u>Due Date</u>
1	GISS	Lab 1: Overview of the Earth	Friday, Sept. 4
2	GISS	Lab 2: Google Maps to Google Earth	Friday, Sept. 11
3	GISS	Lab 3: Digital Earth	Friday, Sept. 11
4	GISS	Lab 4: GPS	Mon, Sept. 14
5	GISS	Lab 5: Map Skills	Wed., Sept. 16
6	GISS	Lab 6: Critiquing a Map	Fri., Sept. 18
7	GISS	Lab 7: How Can GIS Help Us?	Fri., Sept. 28
8	GISS	Lab 8: Analyzing Hurricanes	Mon., Sept. 28
9	GISS	Lab 9: Mineral Exploration	Mon., Sept. 28
10	GIST	Ch. 1: Assignments 1-1 and 1-2	Wed., Sept. 30
11	GISS	Lab 10: ArcMap	Wed., Sept. 30
12	GISS	Lab 11: Map Symbology	Wed., Oct. 7
13	GIST	Ch. 2 Assignments 2-1 and 2-2 (Map Design)	Wed., Oct. 14
14	GIST	Ch. 3 Assignments 3-1 and 3-2 (Outputs)	Wed., Oct. 14
15	GIST	Ch. 4 Assignments 4-1 and 4-2 (Geodatabases)	Fri., Oct. 16
16	GIST	Ch. 5 Assignments 5-1 and 5-2 (Importing Data)	Fri., Oct. 16
17	ESRI Tutorial	“Geocoding in ArcGIS”	Fri., Oct. 23
18	GIST	Ch. 7: Assignments 7-1 and 7-2 (Geocoding)	Fri., Oct. 23
19	GIST	Ch. 8: Assignments 8-1 and 8-2 (Spatial Data Processing)	Fri., Oct. 30
20	ESRI Tutorial	“Geoprocessing in ArcGIS”	Fri., Oct. 30

21	GIST	Ch. 9 Assignments 9-1 and 9-2 (Spatial Analysis)	Mon., Nov. 2
22	GISS	Lab 12: Mapping Tectonics	Fri., Nov. 6
23	GISS	Lab 13: A Global Perspective of Climate	Fri., Oct. 31
24	GISS	Lab 14: Population Growth	Mon., Nov. 9
25	GISS	Lab 15: International Boundaries	Fri., Nov. 13
26	GISS	Lab 16: Demographic Trends in Chicago	Mon., Nov. 16
27	GISS	Lab 17: Mapping Crime	Mon., Nov. 16
28	GISS	Lab 18: Visualizing AIDS	Fri., Nov. 20
29	GISS	Lab 19: "Problems in Happyville"	Mon., Nov. 23
30	GISS	Lab 20: Geocoding in Happyville	Mon., Nov. 23

Note: All labs due by Wed., Nov. 25. No late labs submitted after this date.