

**Geographic Information Systems (Spring 2009)
GIS4043/5101**

Credit Hours: 3 (plus 1 credit for labs)

Lecture meets: W 2-4:30 pm, Bellamy 114

Lab meets: Th 1-1:50 pm (GEO4905-01/GEO5908-06), Bellamy 035
or M 1-1:50 (GEO4905-02/GEO5908-01), Bellamy 035

	Office	Phone	E-mail	Office Hour
Lecture Instructor: Dr. Tingting Zhao	Bel 304	850-645-8198	tzhao@fsu.edu	F 1-3
Lab instructors: Heather Gamper (GEO4905-02/5908-01)	Bel 240		hag05c@fsu.edu	M 12-1
Michael Widener (GEO4905-01/5908-06)	Bel 307		mwidener@fsu.edu	Tu 2-3

Course Objectives

This is an introductory course to geographic information systems and GIScience. Students will learn basics about type, structure, query and analysis of spatial data through lectures, demonstrations, and computer-based labs.

Course Prerequisites

There are no formal prerequisites for this course. However, basic familiarity with cartographic concepts is helpful. Students are expected to be comfortable with computers and the Windows operating system, since all labs are computer-based.

Required Textbook *

Longly, P., Goodchild, M.F., Maquire, D., and Rhind, D. 2005. *Geographic Information Systems and Science* (2nd ed.). Wiley.

* Additional readings will be distributed in class throughout the semester.

Class Resources

Class announcements and part of lecture materials will be posted on Blackboard course site INTRO-GIS (GIS4043/5101, SP09).

Grading

You will be graded based on class participation, two exams and several lab assignments. Graduate students enrolled for session 5101 are also required to review and report to the class an application of GIS in your academic field.

Grade weights (%):

Session	Attendance	Midterm exam	Final exam	Lab	Presentation
Undergrad (GIS4043)	10	30	30	30	n/a
Grad (GIS5101)	10	30	30	20	10

Grading scale:

A (>=96%)	B (84-86%)	C (74-76%)	D (64-66%)
A- (90-95%)	B- (80-83%)	C- (70-73%)	D- (60-63%)
B+ (87-89%)	C+ (77-79%)	D+ (67-69%)	F (<60%)

Course Policies

Attendance is required throughout the semester. Absences due to your outside work schedule, extended job interviews, routine family or spousal responsibilities, and/or vacations are not excused absences. If an unplanned absence occurs, you will need to bring verification of your absence (a note from a physician or the Health Center, jury duty notification form, etc) in order to reclaim a lost attendance day.

There are no makeup exams. No delay will be accepted for graduate presentation. Delay in the submission of lab assignments decreases 10% of your score per day.

Persistent informal talking and any reading or studying of other materials will not be tolerated during formal lectures.

The instructors reserve the right to direct students to the Division of Student Affairs' Dean of Student's for absence verification.

Students are responsible for all missed class materials. The instructors will not provide handouts or notes; you will have to get them from your classmates.

All changes to the course schedule made in class are the responsibility of the student. The class schedule on Blackboard course site gives the most up-to-date list of our schedule.

Office appointments will be made only when there is a clear conflict with the student's course schedule. In office appointments, please ask specific questions to show you have attempted to master the material.

Honor Code Statement

The Florida State University Academic Honor Policy outlines the University's expectations for the integrity of students' academic work, the procedures for resolving alleged violations of those expectations, and the rights and responsibilities of students and faculty members throughout the process. Students are responsible for reading the Academic Honor Policy and for living up to their pledge to "be honest and truthful

and...[to] strive for personal and institutional integrity at Florida State University”
(Academic Honor Policy, <http://www.fsu.edu/~dof/honorpolicy.htm>).

Americans with Disabilities Act

During the first week of class, students needing academic accommodations should: 1) register with and provide documentation to the Student Disability Resource Center; and 2) bring a letter to the instructor from the Student Disability Resource Center, indicating the need for academic accommodations. For more information about services available to FSU students with disabilities, contact

Student Disability Resource Center
97 Woodward Avenue, South
108 Student Services Building
Florida State University
Tallahassee, FL 32306-4167
(850) 644-9566 (voice)
(850) 644-8504 (TDD)
sdrc@admin.fsu.edu

Syllabus Change Policy

This syllabus is subject to change with advance notice.

Schedule
(subject to change)

Week	Lecture Date	Topic	Readings	Lab
1	Jan. 7	What is GIS?	Ch 1	0. Intro to lab facilities/policies
2	Jan. 14	Vector data	p67-76, 204, 183-192	1. Intro to ArcGIS I
3	Jan. 21	Raster data	p202-204, 181- 183, 136-137	2. Intro to ArcGIS II
4	Jan. 28	Map projection	p115-125	3. Map projections
5	Feb. 4	Making maps	Ch 12	4. Making a vector map
6	Feb. 11	Vector data editing	p206-210	5. Data creation & editing
7	Feb. 18	Midterm exam	n/a	n/a
8	Feb. 25	Data query	p320-329, 222-226	6. Spatial data query
9	Mar. 4	Vector data analysis I	p329-339	7. Geocoding & address matching
10	Spring break; No class			
11	Mar. 18	Vector data analysis II	p144-149, 93- 101	8. Vector data model
12	AAG conference; No class			
13	Apr. 1	Raster data analysis I	handout	9. Raster data model
14	Apr. 8	Raster data analysis II	handout	10. Terrain analysis
15	Apr. 15	Course summary & evaluation	n/a	11. Independent lab
16	Apr. 22	Final exam	n/a	n/a