

Geographic Information Systems (Spring 2013)
GIS4043/5101

Credit Hours: 3 (plus 1 credit for labs; you MUST take one of the labs with this class during the SAME semester!)

Lecture meets: W 2:30-5 pm, HCB 215

Lab meets: W 5-7 pm (GIS4043L-01/5101L-01), Bellamy 035
or Th noon-2 pm (GIS4043L-02/5101L-02), Bellamy 035
or F 1-3 pm (GIS4043L-03/5101L-03), Bellamy 035

	Office	Phone	E-mail	Office Hour
Lecture Instructor:				
Dr. Tingting Zhao	Bel 304	850-645-8198	tzhao@fsu.edu	W 10-noon
Lab instructors:				
Ms. Di Shi (GIS4043L-01/5101L-01)	Bel 319		ds10f@my.fsu.edu	Tu 12:30-1:30pm
Mr. Michael Marcelin (GIS4043L-02/5101L-02)	Bel 320A		jm11aa@my.fsu.edu	Tu 10-noon
Mr. Luke Tabbert (GIS4043L-03/5101L-03)	Bel 320A		wlt12@my.fsu.edu	W 12:30-1:30pm

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 *

Keith C. Clarke. 2010. *Getting Started with Geographic Information Systems (5th Edition)*. Prentice Hall.

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

Class Resources

Class announcements, part of lecture materials, and labs will be posted on Blackboard course site GEOG INFO SYS (GIS4043/5101, SP13).

Grading

You will be graded based on class participation, two exams and several lab assignments. Graduate students enrolled for session GIS5101 are also required to review and report to the class an application of GIS in your academic field.

Grade weights (%):

Session	Class participation	Midterm exam	Final exam	Lab	Presentation
Undergrad (GIS4043)	10	30	30	30	n/a
Grad (GIS5101)	10	30	30	30	Pass/Fail

Grading scale:

A ($\geq 96\%$)	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 student presentation. Delay in the submission of lab assignments decreases 20% of the maximum possible score per day. This means that after five days you will receive a zero for the assignment.

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)
sdr@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. 9	What is GIS?	Ch 1	0. Intro to lab facilities/policies
2	Jan. 16	Vector data	Ch 3	1. Intro to ArcGIS I
3	Jan. 23	Raster data	Ch 3	2. Intro to ArcGIS II
4	Jan. 30	Map projection	Ch 2	3. Map projections
5	Feb. 6	Making maps	Ch 8	4. Making a vector map
6	Feb. 13	GPS field trip	Ch 4	5. Data creation & editing
7	Feb. 20	Midterm exam	n/a	n/a
8	Feb. 27	Data editing & query	Ch 5	6. Spatial data query
9	Mar. 6	Vector data analysis I	Ch 6	7. Geocoding & address matching
10	Spring break; No class			
11	Mar. 20	Vector data analysis II	Ch 6	8. Vector data model
12	Mar. 27	Raster data analysis I	Ch 7	9. Raster data model
13	Apr. 3	Raster data analysis II	Ch 7	10. Terrain analysis
14	AAG conference; No class			
15	Apr. 17	Undergrad bonus presentation, course summary & evaluation	n/a	11. Independent lab
16	Apr. 24	Final exam	n/a	n/a