

Geos 425 - Class and Lab Schedule Fall 2006

Labs: Tuesday 3:30-6:30, meets in Room 316 (with a couple local field trips).

Class: Friday 1:00p-2:00p, meet in Room 306.

INSTRUCTOR: Bill Witte, fnwkw@uaf.edu, Rm. 308, x7809

TA: none

Lab Exercises will **TAKE A FULL 3 HOURS; PLAN ON BEING ON TIME & READY TO GO AT 3:30pm!!** Projects are due on dates noted below.

Week	Lab Exercises (& date) Tuesdays	Class Topics (& date) Fridays
		01Sep: No class!
1	05Sep: Project 1 - Static and Differential (WAAS) GPS data collection – inside lecture then outside.	08Sep: GPS concepts, MS Excel – Review of basics and intro to macro language.
2	12Sep: Project 1 - GPS error analysis, MS Excel review. Project 1 due 9/19 – inside.	15Sep: MS Excel macro language examples
3	19Sep: Project 2 – Develop MS Excel macros in Visual Basic for common geologic situations. Due 9/26.	22Sep: Spreadsheets and databases, differences, limitations, how to pick which to use.
4	26Sep: Project 3 - Developing a simple DB for geologic field data. Due 10/03.	29Sep: MS Access: Joins & Relates
5	03Oct: Project 4 – Querying multi-table DB's for field data parameters. Due 10/10.	06Oct: ArcGIS –Intro/review ArcGIS
6	10Oct: Project 5a – GPS points and polygons on and georeferencing basemaps. Project continued to next week.	13Oct: ArcGIS – Entering and editing field data
7	17Oct: Project 5b – More georeferencing examples. Polygon editing methods. Due 10/24.	20Oct: ArcGIS – Georeferencing datum shift tricks
8	24Oct: Project 6 -- Digitizing/scanning, geologic field maps, using ArcScan & Topology tools. Due 10/31.	28Oct: ArcGIS – Editing polylines, polygons, and topology on Geologic maps in ArcGIS
9	31Oct: Project 7 – Geologic line types, & annotation on maps. Due 11/7.	03Nov: ArcGIS – Gridding, contouring, hillshade, geologic symbols
10	07Nov: Project 8 -- Alaska NADCON, Reconciling datum's. Due 11/14.	10Nov: Integrating MS Access with ArcGIS, Intro to ArcScene, ArcGlobe
11	14Nov: Project 9 -- Geologic Maps in ArcGIS. Due 11/21.	17Nov: Thanksgiving Break
12	21Nov: Project 9 – Readable Labeling. Due 12/5.	24Nov: Illustrator basics - Draw programs, image formats
13	28Nov: Other formats: Coverages, e00 format, Geodatabases	01Dec: Discovery Lab
14	05Dec: Project 11 – Scientific presentation posters Intro to Basic Illustrator	08Dec: Illustrator
15	12Dec: Project 12 – Scientific presentation posters in Illustrator. Due 11/16.	

Grades will be based on completed project exercises. 1 week projects are generally worth 100 pts, 2 week projects are worth 200 pts. **Late Projects will be docked 2% per day late.** Lab exercises are due as noted above.

Interest/Experience inventory

Rate the projects below (admittedly, you might not have much to go on yet) in terms of your interest and previous experience on these topics.

Interest: Does it excite you, do you think it will help you get a job, do a thesis project, etc.

1 = ho-hum **10** = this is the coolest thing EVER, I NEED this.

Experience: What do you know of this topic, have you used these tools, do you think you are ready to use these tools:

1 = This scares me – I don't even know what it is, ...**5** = I'm ready for this,**10** = I know this cold already – don't need anymore of it.

			Interest	Experience
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2	15Sep: MSExcel macro language examples	12Sep: Project 1 - GPS error analysis, MS Excel review. Project 1 due 9/19 – inside.		
3	22Sep: Spreadsheets and databases, differences, limitations, how to pick which to use.	19Sep: Project 2 – Develop MS Excel macros in Visual Basic for common geologic situations. Due 9/26.		
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12	24Nov: Illustrator basics - Draw programs, image formats	21Nov: Project 9 – Readable Labeling. Due 12/5.		
13	01Dec: Discovery Lab	28Nov: Other formats: Coverages, e00 format, Geodatabases		
14	08Dec: Illustrator	05Dec: Project 11 – Scientific presentation posters Intro to Basic		

		Illustrator		
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