

Geos 425 - Class and Lab Schedule Fall 2007

Labs: Tuesday 4:40-7:40, meets in Room 316 (with a couple local field trips).

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

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TA: Sudipta Sarkar

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
		07Sep: GPS introduction to lab exercise 1.
1	11Sep: Project 1 - Static and Differential (WAAS& RTK) GPS data collection – outside.	14Sep: MS Excel – Review of basics and intro to macro language.
2	18Sep: Project 1 - GPS error analysis, MS Excel review. Project 1 due 9/19 – inside.	21Sep: MS Excel macro language examples
3	25Sep: Project 2 – Develop MS Excel macros in Visual Basic for common geologic situations. Due 9/26.	28Sep: Spreadsheets and databases, differences, limitations, how to pick which to use.
4	02Oct: Project 3 - Developing a simple DB for geologic field data. Due 10/03.	05Oct: MS Access: Joins & Relates
5	09Oct: Project 4 – Querying multi-table DB's for field data parameters. Due 10/10.	12Oct: ArcGIS –Intro/review ArcGIS
6	16Oct: Project 5a – GPS points and polygons on and georeferencing basemaps. Project continued to next week.	19Oct: ArcGIS – Entering and editing field data
7	23Oct: Project 5b – More georeferencing examples. Polygon editing methods. Due 10/24.	26Oct: ArcGIS – Georeferencing datum shift tricks
8	30Oct: Project 6 -- Digitizing/scanning, geologic field maps, using ArcScan & Topology tools. Due 10/31.	02Nov: ArcGIS – Editing polylines, polygons, and topology on Geologic maps in ArcGIS
9	06Nov: Project 7 – Geologic line types, & annotation on maps. Due 11/7.	09Nov: ArcGIS – Gridding, contouring, hillshade, geologic symbols
10	13Nov: Project 8 -- Alaska NADCON, Reconciling datum's. Due 11/14.	16Nov: Lab project catch-up
11	20Nov: Project 9 -- Geologic Maps in ArcGIS. Due 11/21.	23Nov: Thanksgiving
12	27Nov: Project 10 – Readable Labeling. Due 12/5.	30Nov: 3-D tools, Intro to ArcScene, ArcGlobe
13	04Dec: Project 11 – Strat Sections in Adobe Illustrator	07Nov: Illustrator basics - Draw programs, image formats
14	11Dec: Project 12 – Scientific presentation posters Intro to Basic Illustrator	14Dec: Other formats: Coverages, e00 format, Geodatabases
15	18Dec: Project 12 – Work session for scientific presentation posters in Illustrator. Due 12/20.	

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.