

## INTRODUCTION TO CARTOGRAPHY

GGY 220, Fall 2009

**Class Time:** TR 1:00-1:50

**Lab Time:** T or R 2:00-4:50  
120 DeLoach Hall

Dr. Elizabeth Hines

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Office Hours: MWF 11-12 or by appt.

**COURSE DESCRIPTION:** This 3 credit course introduces cartography--the art and science of maps, the wonderful depictions of the Earth's spatial phenomena. Basic cartographic techniques of qualitative and quantitative data collection, analysis and representation; design; hand- and computer-drafting; map scale and projection; methods of data presentation on thematic maps; and interpretation of USGS topographic maps will be considered first. Geographic Information Systems (GIS) and web-based mapping will be introduced later in the semester.

**REQUIRED READING AND MATERIALS:** Strunk & White's classic *The Elements of Style*. All instructions and explanations will be presented in class and on-line. You will need a hard lead pencil, a good eraser, a calculator, some colored pencils, and a storage device to archive your work, which should be stored on the Thaw Space (T: drive) of "your" computer, but must always be backed up on a device in your possession.

**LABORATORY:** Cartography is time consuming. Plan to work hard in lab and accept that occasionally you may need to work outside of your lab time. Some labs are short, others are long. The lab rules, which must be obeyed, will be discussed in class. You may use the lab during any day of the week 8-5 if no other class is using the room. The lab is not open at night or on the weekends.

**Sloppy lab work will earn poor grades.** Haphazard graphics and poorly written essays are not acceptable. Maps will be judged on accuracy, neatness and style. Essays will be judged on readability, content, organization, illustrations, adherence to the standard format and style (which is why you'll want to read Strunk and White cover to cover).

**EVALUATION:** There are two exams, one at the mid-term, for which you must answer specific questions, and a final essay about what makes a good map and why. You will need your notes from class to complete both exams. Your grade will be based upon your final percentage of points from twelve 100 point lab exercises, the 100 point mid-term, and your final map & essay (worth 200 points). Exercises (some of which include short written responses that describe your methods and results) are due at your next lab time, unless otherwise noted. Attendance is expected. Do not fall behind.

*All written work must be prepared on a word processor in the standard format: one inch margins, double spacing, 12 point Times New Roman black type; title; date; name; page numbers; references to sources and figures and a bibliography. They must be well thought out and composed of grammatically correct sentences and paragraphs without misspellings. If you don't know how to do this, I will teach you. Although somewhat problematic, it is best to adhere to Hayes's Rule: "Neatness is often mistaken for accuracy."*

**Grading Scale:** 100%-94 = A; 93-90 = A-; 89-87 = B+; 86-84 = B; 83-80 = B-; 79-77 = C+; 76-74 = C; 73-70 = C-; 69-67 = D+; 66-64 = D; 63- 0 = D-; Below 60 = F.

**HONOR CODE:** UNCW "is committed to the proposition that the pursuit of truth requires the presence of honesty among all involved. It is therefore this institution's stated policy that no form of dishonesty among its faculty or students will be tolerated. Although all members of the university community are encouraged to report occurrences of dishonesty, each individual is principally responsible for his or her own honesty," *UNCW Student Handbook and Code of Student Life*.

**Tentative Schedule Of Topics, Reading Assignments and Labs**  
(all is subject to change)

<b>Tuesday's Date</b>		<b>Topic and Lab</b>	<b>Reading</b>
8/18	Introduction	1 <sup>st</sup> class on Thursday 8/21/08, No Labs 1. Mental Maps	Web Page Web Page
8/25	What are maps?	2. Research Lab: Historical Geography of SW/Central Asia	Web Page
9/1	History of Cartography	3. SW/Central Asia Sketch Lab	Web Page
9/8	Map Design	4. SW/Central Asia Labels	Web Page
9/15	Scale, Lines, Typography	4. continued	
9/22	Map Projections	5. North American Projections	Web Page
9/29	Lying with maps <b>Mid-Term Exam Assigned</b>	6. "Lying with Maps"	Monmonier (R)
10/6	No classes or Labs for Fall Break		
10/13	Terrain <b>Mid-term Exam due 10/13</b>	7. Map Interpretation 1	Web Page
10/20	Topographic Maps	8. Map Interpretation 2	Web Page
10/27	GIS:	9. ArcView Introduction	Web Page
11/3	Data Gathering	10. Locating and Preparing an NC county-level data set	
11/10	Symbolizing Point, Linear and Areal Data	11. North Carolina Data Manipulation	Web Page
11/17	Computer Cartography with Geographic Information Systems	12. Thematic Map of NC Data using Choropleths	Web Page
11/25	No Class or Lab for Thanksgiving		
12/2	Last class on 12/2/08	No Labs, <b>Final Exam &amp; Map Assigned</b>	

**Final Essay and Map due Thursday Dec. 10, 2009, by Noon**