



ATMS 241: Course Syllabus

Geography in Meteorology

Course Syllabus

Spring 2007



Description: An introductory lab course to study maps, the physical earth, physical geography and climate. Corequisite: ATMS 103 or 105. Spring.

Key Topics: Physical Geography/Climate (3 Labs): Basics of physical geography with emphasis on climate.
Cartography (2 Labs): Fundamental training in map drafting, compilation, symbolization, scales, projections, and map reproduction; emphasis on cartographic concepts and techniques.
Spatial Statistics (2 Labs): Geostatistics topics, including aggregation, correlation, and classification.
Meteorological Mapping and Communication (5 Labs): Using maps to convey meteorological content.
Final Project (2 Labs): Consolidation of course concepts in oral presentation (with supporting visual and written materials) to class during last class period.

Instructor: Mr. Tim Owen, RBH 236B, Department of Atmospheric Sciences
 (828) 232-5159 (department office); (828) 258-9668 (home; no calls after 9 pm please)
 Tim.Owen@charter.net (e-mail): *Please place ATMS241 in Subject Line.*

Hours: Course: 2:45 – 4:25 pm Friday; Office: After class or by appointment.

Text: Instructor's handout packet, *Meteorological Mapping*, provided in PDF format at no cost.

Grading: Lab Assignments (75%); Final Project (20%); Class Participation (5%)

Grade Scale: (Final grade rounded) A: >= 90%, B: 80-89%, C: 70-79%, D: 60-69%, F: <60%;
 +/- Added to Numeric Grades within 2% and 1% of a Grade Threshold, Respectively (D and F excepted)

Notes: Lab Assignments:

- Labs should be completed in class, otherwise due by electronic submission or mail by 5 pm on the following Tuesday.
- Late labs will *not* be accepted.
- Lowest lab score dropped.

Final Project: 4/27/2007

- Presentations in groups, consolidated grade given for team.
- A portion of the grade based on peer feedback.

Course Schedule

#	Week	Date	Subject
1	1	1/19	Introduction to Geography
2	2	1/26	Physical Geography
3	3	2/2	Climatology
4	4	2/9	Introduction to Cartography
5	5	2/16	Cartographic Applications
6	6	2/23	Introduction to Spatial Statistics
7	7	3/2	Spatial Statistics Applications
-	8	3/9	<i>Spring Break – No Class</i>
8	9	3/16	Introduction to Meteorological Mapping
9	10	3/23	Meteorological Mapping Applications
10	11	3/30	Meteorological Mapping Special Topics
11	12	4/6	Communication Basics
12	13	4/13	Map Communication and Animation
13	14	4/20	Final Project Preparation