GEOGRAPHY 1112: Introduction to Weather and Climate

Lab section; Autumn 2003 Syllabus August 24, 2003

***your host*: Robert Liebermann**, PhD candidate, UGA Geography. Specialist in geobotany, conservation, and northern lands. I'm writing a dissertation on landscape conservation and nature reserve networks in the Carpathian Mountains, Ukraine. More than you want to know on the 'rjl' link on class website, if you're curious.

contact: rjl@uga.edu

office: room 149-m in Geosciences bldg. Office hours: when mutually convenient by appointment— I am flexible. I also encourage communications regarding lab questions, policies, etc. via email.

class info: http://www.rjl.us/uga/1112 Here you will find relevant class info (syllabus, assignments, additional info needed or useful, contact info, test reviews, etc.)

times: Monday 8:00-9:55 or 10:10-12:05, room 212. Class meets once per week. If you're unable to attend please speak with me about it beforehand (preferably) to see if anything will be/was missed.

objectives: Understanding and application of basic climatological and meteorological concepts. You will use mainly the workbook, and occasionally other materials that will be provided as needed, to better understand meteorological phenomena. The material is similar to that covered in the lecture sections, though it covers a narrower spectrum in more detail, and at times may not coincide. The lab is not the same as the lecture, however, and the tests in lab and lecture are separate, as is your grade evaluation. Attending one does not forgive skipping the other!

classwork: The schedule of topics is given below, and will be adhered to as closely as possible. Read over the workbook before class, and be sure to bring your questions! All assignments are due in class the week following their discussion in lab (e.g., chapter 1 due Sept. 15). There are also many useful photos and diagrams in the textbook, so I recommend bringing it to lab!

materials: Carbone, Greg (2004). **Exercises for Weather and Climate, 5th edition**. NJ: Pearson-Prentice-Hall. (lab manual) Aguado, Edward and James E. Burt (2004). **Understanding Weather and Climate, 3rd edition**. NJ: Pearson-Prentice-Hall. (textbook) A **calculator** is usually needed as well, and an atlas (such as "Goode's World Atlas") is sometimes handy for this class. Additional materials may occasionally be needed and will be mentioned in the class before needed. Most messages, handouts, assignments, etc. will be posted on website.

feedback: Students should let me know if I am going too slow, too fast, etc. This way I can avoid spending time on topics that are already clear, and spend more time on ones that take more time. Questions on the topic are encouraged at any point in class, as well as useful ideas. All class groups are different, so this helps us find some common pace.

grading: Grading in the lecture is separate from the lab. In lab, it will be based on the following: 25% for each of three quizzes (not cumulative), 15% for homework assignments (not all will be collected!), and 10% total for general attendance, disposition, and behavior. This gives us: [25+25+25] + 15 + 10 = 100. Course Final Grade 90 - 100% = A 80 - 89% = B 70 - 79% = C 60 - 69% = D <60% = F. Quizzes will not be "open book", but relevant materials will be provided (e.g., charts, graphs, etc.) as needed. There is no extra credit option for the class, so keep on schedule with study, and see me if you get behind! The **Midpoint Withdrawal Deadline is Tuesday October 14** – the last day to drop this class with a grade of "W".

attendance: Mandatory; I will often send around an attendance sheet to sign. If you have missed a class for any reason it's your job to find out about any announcements made or assignments given. If, for some reason, you miss a class for an unavoidable reason: please provide me with some type of verifiable valid proof for your absence. If you have a conflict with the test dates (though I advise against it) you need to tell me well in advance of the date, and you may also need to contact the Office of Academic Assistance (542 3564) to clear a makeup time for the test. More than 2 unexcused absences per semester can reduce your final grade (see grading policy).

conduct: Be attentive and civilized in class. Dissenters will be in trouble! Drinks are ok, but food is not. Mobile phones will never be heard or seen in this class! No newspaper reading, etc., is appropriate during class time. Sleeping or sleep-like appearance is unacceptable. Needless to say, there will be no cheating (as defined in UGA Scholastic [Dis]honesty Code)! I expect regular, on time attendance.

Schedule for Geography 1112l, autumn 2003:

Though we'll try to keep on track, this schedule might change; if it does, I will make an announcement during class.

Date	**topic**	**chapter in lab manual**
Aug 25	Introduction, units, measures	Appendices A - B
Sep 01	Holiday (Labor Day)	
Sep 08	Vertical atmospheric structure	1
Sep 15	Earth-sun geometry	2
Sep 22	Surface energy budgets	handout
Sep 29	**Quiz 1** - Atmospheric moisture	6
Oct 06	Atmospheric stability	7
Oct 13	Atmospheric motion	9
Oct 20	Weather map analysis	10 (in part)
Oct 27	**Quiz 2** - Mid-latitude cyclones	11 (part)
Nov 03	Weather forecasting	10-11 (part)
Nov 10	Severe weather	12,13
Nov 17	Climate modeling	Computer lab
Nov 24	Catch-up day	
Dec 01	**Quiz 3**	Last meeting of class