

**GLY 226 / GGY 235 PRINCIPLES OF HYDROLOGY
Fall 2009**



Instructor: Dr. Eric J. Henry
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Class webpage: <http://people.uncw.edu/henrye/hydro.htm> (there is NO www in link!)

Office Hours: M/W/F 2:15-4:15; T/R 9:30-11:30, also by appointment or drop-in. If you are making a trip to campus to meet w/ me, it is wise to make an appointment or call first to make sure I'm in the office, even during stated office hours. A good way to reach me is via **email**. If you email me, put a meaningful comment in the subject line or the email will probably get deleted without being read.

Class: MWF 11:00-11:50 PM in DeLoach 105.

Text: Manning, J.C. 1997. *Applied Principles of Hydrology*. Prentice Hall, 3rd Edition. ISBN-10: 0135655323; ISBN-13: 9780135655320. A copy of the text will be on 2-hr reserve at Randall Library. Don't wait until the night before the test to check it out. At least a couple of questions on the exams will come from the end-of-chapter questions.

Course Description: This course covers the three main components of terrestrial hydrology: (1) atmospheric water, precipitation, and surface-atmosphere interactions; (2) surface water, watersheds, rivers and lakes; and (3) groundwater, infiltration, subsurface flow, and aquifers. Lectures and exercises focus on collecting and interpreting hydrologic data in an environmental context.

Course Objectives:

1. Instill in students a understanding of fundamental hydrologic principles that serve as a foundation for upper level hydrology classes.
2. Introduce students to the application of fundamental hydrologic principles to solve management, engineering, and environmental problems.
3. Introduce the students to basic quantitative techniques used in a wide variety of hydrologic and scientific analyses.

Honor Code: Students must be familiar with and adhere to the University's Academic Honor Code as documented in the UNCW Code of Student Life. No dishonesty will be tolerated. In addition to the typical types of academic dishonesty such as plagiarism, cheating, or bribery, this includes fraudulent excuses for absences and any other types of dishonesty. At a minimum the punishment for such an infraction will likely be a grade of zero on an exam grade. In addition, infractions will be reported to the Dean of Students.

Grading and Course Requirements:

Exams (3 exams x 100 points each)	= 300 points	75%
Projects (3 projects x 50 points each)	= 150 points	20%
Other (attendance, participation, quizzes, etc.)	= 50 points	5%
Total		100%

Notes:

- 1.) One of the easiest things you can do to help yourself earn a good grade in this class is attend class. Exam questions will primarily come from material covered in class.

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- 2.) A portion of the class grade depends on participation. In order to participate you have to attend class. I will check attendance at least 10 times, and up to 20 times, during the semester. If you miss more than 4 of the classes in which I take attendance, your participation grade will automatically be reduced by 25%. If you miss more than 5 classes the grade will be reduced further, in proportion to the number of classes missed. Because everybody gets 4 "free" absences I do not typically grant excused absences.
- 3.) Students with disabilities should meet with the instructor during the first week of class to arrange appropriate accommodations. Disabilities must be documented by UNCW Disability Services.
- 4.) In accordance with the recommendations of the violence taskforce and the approval of the Deans' Council, faculty are encouraged to include the following statement on their syllabi:
"UNCW practices a zero-tolerance policy for violence and harassment of any kind. For emergencies contact UNCW CARE at 962-2273, Campus Police at 962-3184, or Wilmington Police at 911. For University or community resources visit <http://uncw.edu/wrc/crisis.htm>."

Grading Scale: 100-92.5 = **A**, 92.4-90 = **A-**, 89.9-87.5 = **B+**, 87.4-82.5 = **B**, 82.4-80 = **B-**, 79.9-77.5 = **C+**, 77.4-72.5 = **C**, 72.4 – 70 = **C-**, 69.9-67.5 = **D+**, 67.4-62.5 = **D**, 62.4 – 60 = **D-**, <60 = **F**.

Course topics: The course can be thought of as 3 distinct units, roughly encompassing the 3 main components of terrestrial hydrology. Each exam covers a single unit:

Unit 1. August 19-Sept. 21. Topics: Chapter 1 The Water Cycle, Chapter 2 The Structure and Properties of Water, Chapter 3 Water in the Air: Evaporation and Condensation, Chapter 4 Precipitation

Unit 2. Sept. 23-Oct. 26. Topics: Chapter 5 Infiltration and Soil Water, Chapter 7 Groundwater, Chapter 9 Chemical Quality of Natural Water

Unit 3. Oct. 28-Dec. 9. Topics: Chapter 6 Evapotranspiration, Chapter 8 Runoff, Chapter 10 The Water Cycle and Man

Each unit will contain approximately 3 weeks of lecture, one week of exercises/projects, and one exam.

!!! Tentative, but likely, exam dates are *Monday Sept. 21 (exam1); Monday Oct. 26th (exam 2).* The third and final exam is on *Wednesday Dec. 9th*. (3rd exam is held during final exam period and starts promptly at 11:30 a.m. Check the registrar's website for yourself to be sure I recorded the time and date correctly.)

IMPORTANT REMINDERS AND POLICIES

- 1) There will be no class on Sept. 7, Oct. 5&6, and November 25,26, & 27.
- 2) All students are responsible for announcements made in class regarding changes or modifications of class schedule or grading policies.
- 3) Academic dishonesty will not be tolerated and when discovered will be dealt with in accordance to University Policy.
- 4) There are no make up exams except under extenuating circumstances. Unexcused absences for exams will result in a grade of zero.
- 5) Chronic absences will have a negative effect on your grade as shown above.
- 6) Disruptive behavior, in particular talking during the lecture or when other students ask questions, will not be tolerated. If disruptive behavior occurs the instructor will ask the students involved to stop. After such a request, continued and excessive disruptive behavior will be reported to the Office of the Dean of Students.
- 7) Late exercises will receive no credit unless an excused absence is provided.
- 8) No use of electronic equipment for phone calls, text messaging, emailing, web access or similar purposes will be allowed in the classroom. This type of activity is disruptive because it is distracting to fellow students and the instructor. Any student who engages in this behavior will be asked to leave the classroom and will not receive credit for attendance or any assignments given in class that day. The student may return to class during the next class period. Any student who is not willing to leave the classroom when asked will be escorted from the classroom by campus police. Disruptive behavior will not be tolerated. Laptops will be allowed during periods in which students are working on their exercises/projects.