

HYDROLOGY
CE/HWR/ARL 423/523
Spring 2011

Lectures: Civil Engineering, Rm 201 TuTh 3:30PM - 4:45PM

Instructor: Francina Dominguez

Office: 586b PAS

Email: francina@hwr.arizona.edu

Office Hours: Monday 11-12am Thursday 11-12am.

Course Description: This course is designed to enable the student to learn the fundamental laws of surface water hydrology and how to apply these laws in hydrologic design and analysis.

Text: Physical Hydrology by Dingman

Grading:

CE or HWR423	
2 examinations and a final	65% (20% each exam and 25% final)
Homeworks (total of 5)	35%
CE or HWR523	
2 examinations and a final	60% (20% each exam and 20% final)
Homeworks (total of 5)	25%
Independent Project	15%

Students enrolled in CE or HWR 523 will be required to complete an independent project.

(1) A homework assignment will be given out at the end of each major section and a due date will be assigned. No credit will be given for late work unless prior arrangements have been made with the instructor.

(2) Some of the assignments will be the development of spreadsheet programs. These will be completed individually on the PC. You may discuss the concepts and basic outline of your programs but each person will write his own program.

(3) No makeup exams will be given without prior approval of the instructor.

ACADEMIC DISHONESTY will not be tolerated. Students committing academic dishonesty will receive an 'E' for the course and the proper university officials will be notified.

Drop policy follows that described in the Academic Schedule.

Attendance Policy: All holidays or special events observed by organized religions will be honored for those students who show affiliation with that particular religion if the instructor is given reasonable notice. Absences for travel and university activities will be honored if the instructor is given reasonable advance notice. Students are responsible for all material missed in class.

Academic Integrity: The UA Code of Academic Integrity, Code of Conduct and Student Code of Conduct are strictly followed. All students are responsible for knowing the codes and abiding by them. See <http://web.arizona.edu/~dos/uapolicies/>. You can submit complaints about fellow students online at <http://dos.web.arizona.edu/uapolicies/index.html>. Your submission is completely anonymous, and I will investigate the allegations further.

If you anticipate barriers related to the format or requirements of this course, please meet with me so that we can discuss ways to ensure your full participation in the course. If you determine that

disability-related accommodations are necessary, please register with Disability Resources (621-3268; drc.arizona.edu) and notify me of your eligibility for reasonable accommodations. We can then plan how best to coordinate your accommodation.

Schedule

Jan 13	Introduction
Jan 18	Basic Hydrologic Concepts Ch 2
Jan 20	Basic Hydrologic Concepts Ch 2
Jan 25	Global Hydrologic Cycle Ch 3.2
Jan 27	No class
Feb 3	Atmospheric Circulation Ch .3.1
Feb 1	Atmospheric Circulation Ch 3.1
Feb 8	Atmospheric Water App. D
Feb 10	Atmospheric Water App. D
Feb 15	Evapotranspiration Ch. 7
Feb 17	Evapotranspiration Ch. 7
Feb 22	Rainfall Ch. 4
Feb 24	Rainfall Ch. 4
Mar 1	Snow Ch. 5
Mar 3	Exam 1
Mar 8	Infiltration and Soil Water Ch. 6
Mar 10	Infiltration and Soil Water Ch. 6
Mar 22	Sub-surface flow Ch. 8
Mar 24	Sub-surface flow Ch. 8
Mar 29	Surface Flow/ No Class
Mar 31	Hydrograph Analysis/ No Class Ch. 9
Apr 5	Hydrograph Analysis Ch. 9
Apr 7	Runoff Mechanisms Ch. 9
Apr 12	Runoff Mechanisms Ch. 9
Apr 14	Flow Routing Ch. 9
Apr 19	Flow Routing Ch. 9
Apr 21	Exam 2
Apr 26	Hydrologic Statistics App C
Apr 28	Hydrologic Statistics App C
May 3	Frequency Analysis Chow Book

FINAL EXAM SCHEDULE

Wednesday May 11, 2011 3:30 p.m. - 5:30 p.m.