CVEN 339 Water Resources Engineering  
Spring 2004

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Objectives: (1) to expose civil engineering students to a wide range of water resources engineering problems, and to introduce them to the application of fundamental mathematical and scientific knowledge (acquired in previous courses) and use of computers to solve these problems; and (2) to provide the students with the basic knowledge of water resources engineering a civil engineer should be familiar with. After taking this course, the students will be able to solve basic problems of water resources engineering, including flow in pipes and channels, groundwater flow, and watershed analysis.

Schedule: Monday, Wednesday and Friday 8:00 a.m. – 8:50 a.m. @ CE 222

Office hours: Monday and Wednesday 9:00 a.m. – 10:00 a.m.

Prerequisite: CVEN311 Fluid Dynamics

Class web page: ceprofs.tamu.edu/folivera/CVEN339WRE/Spring2004/home.htm

Textbook: Water Resources Engineering by Ralph Wurbs and Wesley James, Prentice Hall, 2002

Grading: Homework: 15%  
Class attendance and participation: 15%  
Two in-class tests (2 × 20%): 40%  
Final Exam: 30%  
Letter grades will be assigned according to: A (100 – 90), B (89 – 80), C (79 – 70), D (69 – 60), and F (less than 60). Numeric grades will be rounded to the nearest integer.

Topics Covered: Fluid Mechanics (review)  
Pipe Hydraulics  
Hydrology  
Watershed Hydrology  
Hydrologic Routing  
Open Channel Hydraulics  
Hydrologic Frequency Analysis  
Groundwater Hydraulics
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Final Exam: May 7, 10:00 a.m. – noon.

Unless otherwise stated, all assignments and homework are expected to be completed based on individual effort. Copying the work of others is a violation of Texas A&M University Student Rule 20.1.1 Acquiring Information.

The handouts used in this course are copyrighted. By “handouts,” it is meant all materials generated for this class, which include but are not limited to notes, in-class materials, homework problems and other assignments, tests and exams. Because these materials are copyrighted, you do not have the right to copy the handouts unless I expressly grant permission.

It is the student’s responsibility to be fully acquainted and to comply with the University Student Rules (http://student-rules.tamu.edu).

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