

542 HYDROLOGY (SPRING 2010)

Class: MWF 8:30 – 9:20 AM in CIVL 2123

Instructor: Venkatesh Merwade

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Office Hours: Open door policy (advance email is preferred)

Course Objectives

The course is designed to present (a) introductory knowledge of hydrologic cycle and its components, (b) movement of water through different components of hydrologic cycle, (c) hydrologic analysis and modeling.

Text Book: Applied Hydrology by Ven Te Chow, David R. Maidment and Larry W. Mays, McGraw Hill Inc., New York, 1988.

Course Credit

Classroom participation	10%
Homework	10%
Quizzes	10%
Midterm Exam I	20%
Midterm Exam II	20%
Final Exam	20%
Term Project	10%

Notes: (i) Any problems, personal or otherwise, affecting your grade should be brought to the instructor's attention; (ii) Failure to turn-in two or more homework assignments will lead to zero credit for homework; (iii) Failure to turn in more than 5 class-room assignments will lead to zero credit for classroom assignments

Homework Policy

- Homework assignments are due by 5:00 PM on the day assigned. Late homework will be penalized by 50% before the solution is discussed in the class. No credit is given after the solution is discussed.
- Homework must be legible and done on a clean sheet of paper with necessary calculations. Please use a spreadsheet program (eg. MS Excel) for preparing graphs. Untidy homework submissions will be penalized.

Term Project

Each student is expected to complete a term-project in this class. Term project will involve setting up of HEC-HMS and running the model for different scenarios.

Tentative Course Outline

Week	Topic	Reading
1	Introduction	Chapter 1
2	Transport Processes	Chapter 2
3	Atmospheric Water	Chapter 3
4	Subsurface Water	Chapter 4
5		
6	<i>First Midterm Exam</i>	
7	Surface Water	Chapter 5
8		
9	Unit Hydrograph	Chapter 7
10	<i>Spring Break!</i>	
11	Unit Hydrograph	Chapter 7
12	<i>Second Midterm Exam</i>	
13	Flow Routing	Chapter 8
14	Frequency Analysis	Chapters 10 & 11
15	Hydrologic Modeling	Handout
16	Hydrologic Design	

Additional Important Information

Campus Emergency: In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. You can get information about changes in this course through: Blackboard Vista web page, my email address (vmerwade_at_purdue.edu), and my office phone (494-2176).

Emergency Procedures: Please check the emergency procedures handbook at the Purdue Emergency Preparedness website (http://www.purdue.edu/emergency_preparedness/).

Student Code of Conduct: Please visit the following link to learn policies and procedures related to student code of conduct at Purdue.

http://www.purdue.edu/usp/acad_policies/student_code.shtml

Students with special needs: are encouraged to visit the staff at the Adaptive Programs division of the Office of the Dean of Students as soon as possible to make necessary arrangements.

Email access: Please make sure you check your email regularly (at least once every day) to get course updates and announcements.

More university policies and services for students are available at the Dean of Students website (<http://www.purdue.edu/ODOS/>).