

## 542 HYDROLOGY (SPRING 2009)

**Class:** MWF 8:30 – 9:20 AM in CIVL 2107

**Instructor:** Venkatesh Merwade

**Office:** CIVL 1101G

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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%
Midterm Exam I	20%
Midterm Exam II	20%
Final Exam	25%
Term Project	15%

**Note:** Any problems, personal or otherwise, affecting your grade should be brought to the instructor's attention.

### 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 submit a term project in this class. Project proposals are due by the end of 8<sup>th</sup> week, and final project reports are due on the last class day.

## 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. Here are ways to get information about changes in this course. Blackboard Vista web page, my email address: vmerwade\_at\_purdue.edu, and my office phone: 494-2176.

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/>).