

SYLLABUS FOR CE 234 – WATER RESOURCES ENGINEERING, SP2006
 (Syllabus may be revised depending on class progress)

Instructor	Prof. C. D. Morris, Ph.D., P.E.	GTA	William Otero
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MWF 9-10a (Lec)

Textbook: Water Resources Engineering, Wurbs and James, Pentice Hall.

F 1-4pm (Lab)

<u>Date</u>	<u>Reading Assignment</u>	<u>Topic</u>
01/09	Chapter 1	Introduction
PUMPS		
1/11	4.1	Pumps
1/13	4.2	
1/18		
1/20		
1/23		
1/25		
1/27		
OPEN CHANNEL HYDRAULICS		
1/30	5.1-5.3	Uniform Flow
2/1		
2/3		
2/6	5.4-5.5	Specific Energy Critical and Normal Flow
2/8		
2/10		
2/13		
2/15	5.6	Channel Design
2/17	5.7	Gradually Varied Steady Flow
2/20		
2/22		
2/24		
2/27	5.8	Rapidly Varied Steady Flow
3/1		
3/3		
3/6		
3/8		
3/10		
3/13		
HYDROLOGY		
3/15	2.1, 2.2, 2.3	Hydrologic Cycle
3/17	2.4, 2.5, 2.6	Rainfall
3/20	2.7, 2.8, 2.9, 2.10, 2.11	
3/22	6.1	Flood Routing
3/24	7.1, 7.2, 7.3, 7.4	Hydrologic Frequency Analysis

Tue 1-4 (lab)

4/3	7.5, 7.6	
4/5		Modeling Watershed Hydrology
4/7	8.1, 8.2	
4/10	8.3, 8.4	
4/12		
4/14	8.5	Rainfall Abstractions
4/17		
4/19	8.6	Unit Hydrograph
4/21		
4/24		
4/26		Synthetic Unit Hydrograph
4/28		
5/1		
5/3		
5/5		

Syllabus for CE234 – Water Resources Engineering Laboratory, Fall 2007

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Course Instructors Charles E. Patterson, Ph.D. , P.E., C.F.M.
Joseph P. Wilson, P.E., P.H., C.F.M.

Lab Instructors	Jennifer and Todd	Phone	(573) 341-7018
Office	113 B, Hydraulics Laboratory	Email	jlh993@umr.edu twdy83@umr.edu

Office Hours Mon, Wed, Fri 9:00 – 10:50 am or by appointment

Text Book: Computer Applications in Hydraulic Engineering, 7th Edition. Haestad Press

Date	Laboratory Activities	Reading Assignments
08/21/07	Lab #1 – Fluid Mechanics Review	
08/28/07	Lab #2 - Introduction to WaterGEMS	
09/04/07	Lab #3 – Watershed Delineation (TOPO)	
09/11/07	Lab #4 – Hydraulic Machines - Pumps	Handouts
09/18/07	Lab # 5 – Rainfall- Runoff Distribution	Handout
09/25/07	Lab # 6 – Watershed Delineation Exercise	
10/02/07	OPEN	
10/09/07	Lab # 7 – Bulletin 71	
10/16/07	Lab # 8 – Specific Energy Concept	Handout
10/23/07	Lab # 9 – Introduction to HEC-RAS	Handout
10/30/07	OPEN	
11/06/07	Lab # 10– Specific Force on a Gate	Handout
11/13/07	Lab # 11 – Hydrologic Frequency Analysis	Handout
11/20/07	NO LAB (Thanksgiving Break)	
11/27/07	OPEN	
12/04/07	NO LAB	