Course Syllabus

Hydrology
Spring 2007

Instructor: Andy Moore, 672-9465, amoore5@kent.edu
We meet TTH 11:00-12:15 in McGilvrey 234

Text: *Water, Rivers, and Creeks* by Luna Leopold

Grading:	Problem sets	30%
	Lab exercises	20%
	Midterm	30%
	Final	20%

Weekly Schedule:

Week	Topic(s)	Reading	Notes
Jan. 15-19	Introduction to the water cycle		Problem set 1 out (18th)
Jan. 22-26	Hydrologic processes		Problem set 1 due (25th)
Jan. 29-Feb. 2	Precipitation, interception and evapotranspiration	Chapter 1	Problem set 2 out (30th)
Feb. 5-9	Infiltration and streamflow	Chapter 2	Problem set 2 due (6th)
Feb. 12-16	Streamflow and hydrographs	Chapter 4	Problem set 3 out (13th)
Feb. 19-23	Unit hydrographs	Chapter 4	Problem set 3 due (22nd)
Feb. 26-Mar. 2	Flood data analysis		Problem set 4 out (27th)
Mar. 5-9	Catchment runoff and hydrographs		Problem set 4 due (6th)
Mar. 12-16	Hydrograph routing		MIDTERM (15th)
Mar. 19-23	Urban hydrology		Problem set 5 out (22nd)
Mar. 26-30	SPRING BREAK		NO CLASS (26-30)
Apr. 2-6	Hydrology and design		Problem set 5 due (3rd)
Apr. 9-13	LAB 1: Stream cross-sections		
Apr. 16-20	LAB 2: Velocity distribution		Lab 1 due (20th)

Apr. 23-27	LAB 3: Stage-discharge relationships		Lab 2 due (27th)
Apr. 30-May	LAB 4: Friction factors		Lab 3 due (4th) Lab 4 due at final

Office Hours: Tuesdays and Thursdays 12:30 to 2:30 PM in my office.

Homework: There will be five homework problem sets this semester. They will be due in class about one week after they are assigned, unless you have made arrangements with me before the due date. You are encouraged to work with other students on the problem sets, but each person must turn in his or her own work.

Midterm: The midterm will be in class on the 15th of March. As with the problem sets, it's due in class unless you've made arrangements with me *before* the deadline. Not as with the problem sets, you can't consult with other people, although you can look through your notes.

Final: With luck, we will spend all day the 12th of May at the hydraulics facility at Central State University in Wilberforce, Ohio. We will perform several exercises with their equipment—the results of which will constitute your final project.

A note on the labs: Labs will be held every week for the last 4 weeks of the quarter and will be held **in place of** lecture for that week. Lab will be held either Tuesday or Thursday from 11 to 2.

Because this is a class in hydrology, chances are good you'll be getting wet. Consider owning good raingear (suitable for standing around in the rain for three hours at a stretch). You will also be wading in hip-deep water. Although there will be stocking-foot waders available, you may well be happier with your own pair of hip-waders.

Help: Should you need help, please drop by my office or email me. You're guaranteed to find me in during office hours, but you may get me elsewhen. If you want to set up a different time, give me a call, email me, or talk to me after class. ***If something in class doesn't make sense….ASK.***