RIVERS AND DRAINAGE BASINS GEOL 315, GEOL 500, EVPP 505 - FALL 2005 GEORGE MASON UNIVERSITY

Mondays & Wednesdays 6-7:15 pm

Rick Diecchio, 3040 David King Hall, 703/993-1208, rdiecchi@gmu.edu

<u>Date</u>		<u>Topic</u>	Readings
Aug	29 31	introduction drainage basins	RKM ch 5
Sep	5 7	no class drainage basins	
	12 14	fluvial processes fluvial landforms	RKM ch 6 RKM ch 7
	19 21	physiography of North America no class	Hunt ch 1
	26 the Chesapeake watershed, Potomac basin28 Potomac basin		
Oct	3 5	* The Susquehanna basin* The Rappahannock basin	exam to take home
	10 11 12	no class * The Kennebec-Androscoggin basin Potomac ecology (Dr. Kelso)	
	17 18	no class * the Hudson-Mohawk basin	
	24 26	the Mississippi basin, physiography * the upper Mississippi	
Nov	31 2	* the Missouri * the Ohio	

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Nov 4-6 Potomac basin field trip (dates tentative)
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- 7 * the Tennessee
- 9 * the lower Mississippi
- 14 * the Rio Grande-Pecos basin
- 16 river and floodplain restoration, Dr. Ahn
- 21 **the Colorado basin**, physiography
- 23 no class
- 28 *the upper Colorado 30 * the lower Colorado
- Dec 5 * the Sacramento-San Joaquin basin
 - 7 * the Columbia-Snake basin

exam 2 to take home

Students will be responsible for compiling information on a drainage basin and presenting it to the class on the assigned day. Students will be expected to monitor stream flows in their drainage basin over the course of the semester. Term paper on assigned drainage basin due 7 December. Term paper will be 15-20 double spaced pages, not including figures, tables, references. Formats for presentation and term paper will be provided.

Students will be responsible for monitoring stream flow at one gauging station in the Potomac basin over the course of the semester. We will visit several of these gauging stations on the field trip.

Grading:	Exam 1	25 points
	Exam 2	25 points
	Presentation	20 points
	Paper	20 points
	Participation	10 points

Important websites

http://water.usgs.gov http://nationalatlas.gov

^{*} student presentations

Readings & references:

Hunt, C.B., 1974, Natural Regions of the United States and Canada: W.H. Freeman & Co. Publ

Ritter, Kochel & Miller, 2002, Process Geomorphology, Wm. C. Brown Publ.