Tentative Syllabus for Water Resources ENV 373

Instructor: Linda Schweitzer, Ph.D. (Assistant Professor in Chemistry Dept.)
Textbook: none required; optional Water Atlas. Many handouts, posted on WebCT
Class: Tu/Th 10-1147 in 376 SEB
Office hours “open door” or by appointment in 289 SEB.
Phone (248) 370-2092. Email: schweitz@oakland.edu
Grading: Exams each 25%, participation 10%, homework 15%

Objectives
Introductory principles of watershed hydrology, watershed management, water resource economics, introduction to water treatment, water quality

January 5,10
Introduction, Definitions -The Hydrologic Cycle, Storage, concept of the Watershed

January 12
Properties of Water and the energy budget

January 17, 19, 24
Water in the Atmosphere, weather and climate, photosynthesis

January 26
Review for Exam I

January 31 – Exam I

February 2, go over exam, intro to biomes
Feb. 7 Biomes and vegetation terms
Feb. 9 Water in the Terrasphere - water in soils and geomorphic processes
February 14, 16
Water in the Hydrosphere, Watershed
Feb. 21, 23
Special videos

Winter Recess: Feb. 28 and March 2 – no class
March 7 more on hydrosphere
March 9 Review for Exam II

March 14 Exam II

March 16; review exam, Intro to Watershed Management
March 21, 23 Water Treatment and Water Quality, Water Reclamation
March 28, 30 Water Resource Economics
Water demand forecasting; Cost-benefit analysis
April 4 Water Sustainability issues
April 6, 11 Wetlands
April 13 Water Legislation
April 18 – Review, prepare for final exam

April 20 (TR) 8-11 AM Final Exam [new stuff and some cumulative]
Expectations:
(1) Develop a general knowledge and vocabulary of the field of water resources
(2) Be able to do practical algebraic calculations in order to gain an understanding of basic hydrology
(3) Gain a general understanding of the principles of macroeconomics as it is related to the field of environmental management of water resources

Policy on Academic Misconduct
The University's regulations that relate to academic misconduct will be fully enforced. Any student suspected of cheating will be referred to the Academic Conduct Committee. Students found guilty of academic misconduct face suspension or permanent dismissal.

Suggested References:
Any basic hydrology text. Use google to search topics. Notes for the course will be posted on WebCT.