NREM 399
Watershed Management to Protect Coastal Areas of Hawai’i

I. Course Structure

This course will meet for 90 minutes every other week. With interns and project PIs located at both the Hilo and Manoa campuses, polycom sessions will be used for seminar presentations and demonstrations.

II. Course Objective

The general objective of this course is to continue work on students’ NOAA summer internships. Students will make initial presentations on what they have accomplished in their summer internships. Guest speakers will be brought in to discuss concepts, procedures and issues in watershed management that will assist the student in completing NOAA project objectives.

III. Organization of course

A. Class meetings are held every other week. Each class is 90 minutes in length.

B. Reading assignments and homework exercises may be given prior to or during the class meeting.

C. Each student is responsible for two presentations. The first, at the beginning of the semester, to show what the student accomplished during the summer. The last, at the end of the semester, to indicate accomplishments over the semester.

D. This two credit course is graded on credit/no credit basis.

IV. Tentative Schedule

September 8th: Reports by student interns

September 22nd:
John DeLay, Department of Geography, University of Hawaii-Manoa
Topic: Water balance measurement, accounting and modelling
Dr. Ali Fares, Department of Natural Resources and Environmental Management, University of Hawaii-Manoa  
Topic: Basic hydrology and water quality science

October 13th:
Richard Brock, University of Hawaii Sea Grant Program  
Topic: Coastal water chemistry, water quality, and ecosystem integrity in Hawaii

October 20th:
Dr. Travis Idol, Department of Natural Resources and Environmental Management, University of Hawaii-Manoa  
Topic: Biogeochemical dynamics in terrestrial systems

Dr. Tracy Wiegner, Department of Marine Science, University of Hawaii-Hilo  
Topic: Biogeochemical dynamics in aquatic systems

November 24th:
Dr. Carl Evensen, Department of Natural Resources and Environmental Management, University of Hawaii-Manoa  
Topic: Managing agricultural impacts

Dr. Brian Szuster, Department of Geography, University of Hawaii-Manoa  
Topic: Managing aquacultural impacts

December 1st:
Kevin Kodama, National Weather Service Forecast Office, NOAA-Honolulu  
Topic: Hydrologic data, program, career opportunities

Dr. Jack Smith, Consultant-Honolulu  
Topic: TMDLs, water quality education, professionalism