New Course!

Environmental Science – Field Summer Camp
SWES 461/561*

This 3-unit course will start May 16th through May 31st, 2011 and fulfill the capstone requirements for undergraduate students majoring in Environmental Science.

Class Times: All day (11 days excluding weekends) combining class lecture and laboratory periods and field trips. Course will be taught during the pre-session before the summer session and meet in VSM 103/105. Normal times: 8:00 till 5:00 PM except on days of field trips the class will leave campus at 7:00 AM and may not finish till 6:00 PM.

Registration: Initially Limited to SWES undergraduates (majors in Environmental Science) until May 7th. Thereafter enrollment will also be open to other qualified students. Minimum enrollment: 8. Maximum enrollment: 22

Team taught course with instructors: Drs. Chuck P. Gerba, Janick F. Artiola, Marcel Schaap, Craig Rasmussen, Ed Glenn, Jeff Silvertooth, Channah Rock, and Paul Brown.

Course Description: Field and laboratory experience in environmental monitoring and characterization with emphasis on hands-on experience in measurements related to water quality, pollution, vegetation, soil quality and conservation, vadose zone monitoring, and weather measurements.

Course Requirements: Prerequisites SWES 200 and SWES 305. Textbook: Environmental Monitoring & Remediation

Course Objectives: Students should be able to:
1. Analyze and measure the chemical/physical and microbial properties of soil and water
2. Understand the principles and approaches to vegetation and soil quality assessments
3. Understand the requirements and regulations for environmental monitoring of contaminants
4. Explain the reasoning behind soil and water conservation
5. Apply these principles to specific case studies or locations
6. Write a report on the information and data gathered in class, from readings and on field trips.
7. Complete exercises and problems as assigned related to water and soil environmental problems and management

Registration Contact: (required approval)
Alicia Velasquez, Program Coordinator
Department of Soil, Water & Environmental Science
Shantz Annex(#38), Room 429
Tel: 520-621-7228
e-mail:avelasqu@cals.arizona.edu

*Soil and Water Conservation is the former course name