Instructor:
Tony Cahill
205J, WERC, 862-3858, tcahill@civilmail.tamu.edu
http://ceprofs.tamu.edu/cahill
Open office hours

Class Web Site:
We are using the CENOTES system, which can be accessed at cenotes.tamu.edu. You must register with this system, and you will be able to access all class handouts and your grades through it.

Pre-requisites:
CVEN 421 (probability and statistics) or equivalent;
CVEN 463 (hydrology), a groundwater course, or equivalent;
Facility with a computer programming language with graphical capabilities (e.g. Matlab, IDL – spreadsheets might get you by)

Required Texts:

Tentative Course Outline:
I. Course Introduction
II. Quick review of probability and statistics
III. Temporal stochastic processes
   a. Standard univariate time series analysis
   b. Long memory processes
   c. Markov models

Exam 1

IV. Frequency analysis and extreme value distributions
   a. Standard methodology
   b. L moments
V. Spatial stochastic processes

Exam II during finals week

Grading:
Homework 30%
Exams 20% each
Course project 30%

Official Notices

ADA Statement: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room 126 of the Koldus Building, 845-1637.

Academic Integrity and Aggie Honor Code: “An Aggie does not lie, cheat, or steal or tolerate those who do.” Students are expected to understand and abide by the Aggie Honor Code presented on the web at: http://www.tamu.edu/aggiehonor No form of scholastic misconduct will be tolerated. Academic misconduct includes cheating, fabrication, falsification, multiple submissions, plagiarism, complicity, etc. These are more fully defined in the above web site. Violations will be handled in accordance with the Aggie Honor System Process described on the web site.

The handouts used in this course are copyrighted. By “handouts,” I mean all materials generated for this class, which include but are limited to syllabi, notes, quizzes, exams, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts unless I expressly grant permission. We are using CENOTES to provide a level of security for the course materials (including your grades). You must not give out your CENOTES password to anyone, since this would allow general access to the copyrighted materials.

Cheating on quizzes and exams will not be tolerated. Cheating will be reported and handled in accordance with the Aggie Honor System Process. Some or all examinations will be closed book; “looking at another student's examination or using external aids (for example, books, notes, calculators, conversation with others, or electronic devices)” during these examinations is a violation of Texas A&M Aggie Honor Code, Cheating, unless specifically allowed in advance by the instructor.

Unless specifically allowed in advance by the instructor, all assignments and homework in this class are expected to be completed based on individual effort. Copying the work of others, including homework, is a violation of Texas A&M Aggie Honor Code, Cheating.