

# Course Schedule - Spring 2006

## Civil and Environmental Engineering

**570 *Finite Element Methods*** Credit: 4 hours.

Theory and application of the finite element method; stiffness matrices for triangular, quadrilateral, and isoparametric elements; two- and three-dimensional elements; algorithms necessary for the assembly and solution; direct stress and plate bending problems for static, nonlinear buckling and dynamic load conditions; displacement, hybrid, and mixed models together with their origin in variational methods. Same as CSE 551. Prerequisite: CEE 471 or TAM 551.

CRN	Type	Section	Time	Days	Location	Instructor
31749	lecture-discussion	D	11:00 AM - 11:50 AM	MWF	room 1518 Civil Eng Hydrosystems Lab	Paulino, G
31749: 4 hours						