

# Class Schedule - Fall 2009

## Aerospace Engineering

529 **Viscoelasticity Theory** credit: 4 hours.

Fundamental concepts of viscoelasticity with applications: elastic-viscoelastic analogies, creep and relaxation functions, Poisson's ratio, thermomechanical reciprocity relations, variational principles, model fitting, shear center motion, thick-walled cylinders under pressure and inertia loads with material annihilation, sandwich plates, propagation of viscoelastic waves, vibration of bars, plates and shells, nonlinear elastic-viscoelastic analogy, properties of nonlinear viscoelastic stress-strain laws, creep rupture, and torsion of nonlinear bars and shells. Same as TAM 529. Prerequisite: AE 321 or TAM 451.

CRN	Type	Section	Time	Days	Location	Instructor
54326	lecture-discussion	A	08:30 AM - 09:50 AM	TR	room 225A Talbot Laboratory	Hilton, H