MECH6306 - Continuum Mechanics

**MECH 6306** Continuum Mechanics (3 semester credit hours) This course provides an introduction to mechanics of continua within a rigorous mathematical framework. Topics of interest include tensor analysis, kinematics, analysis of deformation, analysis of stress, and constitutive equations. Other areas of discussion focus on material anisotropy, mechanical properties of fluids and solids, derivation of field equations, boundary conditions, and solutions of initial and boundary value problems for continua. Prerequisite: MECH 4301 or equivalent. (3-0) Y