MECH 6350 - Advanced Solid Mechanics

**MECH 6350** Advanced Solid Mechanics (3 semester credit hours) This course provides a foundation for studying mechanical behavior of materials analyzing deformation and failure problems common in engineering design and materials science. Topics to be covered include elasticity, elastic stability, wave propagation, plasticity, and fracture. This course explores static and dynamic stress analysis, two- and three-dimensional theory of stressed elastic solids, analyses of structural elements with applications in a variety of fields, variational theorems and approximate solutions. Prerequisite: **MECH 4301** or equivalent. (3-0) Y (2016-02-05 23:41:05)