

Graduate Course Offering for Fall 1998
ESM 546 Intermediate Mechanics of Materials
Dr. M. E. Barkey

Intermediate Mechanics of Materials is specifically intended for Mechanical Engineering, Aerospace Engineering, Civil Engineering, and Materials and Metallurgy graduate students seeking a treatment of the mechanics of solids beyond the introductory level.

The course content includes an introduction to 2-D plane elasticity, thick walled cylinders and spinning disks, bending and shear center of unsymmetric cross-sections, curved beams, beams on elastic foundations, torsion of non-circular cross-sections, thick-walled pressure vessels, and an introduction to the strain-life theory of metal fatigue.