

# ME 208 : Mechanics of Materials I

The course teaches mechanics of deformable bodies. Topics covered include concepts of stress and strain, classification of materials behaviour, stress-strain relations, generalized Hook's law. It also covers applications to engineering problems: members under axial loads, torsion of circular rods and tubes, bending and shear stresses in beams, combined stresses in beams, transformations of stresses, deflection of beams, buckling and thin-walled pressure vessels.

**Credits** 3

**Lab Hours** 0

**Lecture Hours** 3

**Tutoring Hours** 0

**Prerequisite Courses**

ME 201

ME 203

**Corequisites**

none