MECHANICAL TECHNOLOGY (MCHT)

MCHT 111: Mechanics for Technology: Statics
3 Credits

Forces; moments; resultants; two- and three-dimensional equilibrium of force systems; friction; centroids and moments of inertial of areas.

Prerequisite: MATH 026 or MATH 081

MCHT 213: Strength and Properties of Materials
3 Credits

Axial stress and strain; shear; torsion; beam stresses and deflections; combined axial and bending stresses; columns, ductility, resilience, and toughness.

MCHT 214: Strength and Properties of Materials Laboratory
1 Credits

Measurement of mechanical properties of materials; structural testing, data acquisition and analysis; technical laboratory report writing.

Prerequisite: Prerequisite or concurrent: MCH T213 or EMET 222