
ENGINEERING TECHNOLOGY/GENERAL

ETG 2502, Statics Statics

3 hrs., 3 crs.,

Prerequisite: MAC1114. Basic principles of statics; resolution and composition of forces; equilibrium of forces; simple machines; trusses and frames; screws and threads; friction; centroids and center of gravity; moment of inertia, and radius of gyration. Includes scale model analysis and testing of bridge and truss-type structures.

ETG 2530, Strength of Materials Strength of Materials

3 hrs., 3 crs.,

Prerequisite: ETG2502. Stress and deformation; riveted and welded joints; thin-walled pressure vessels; torsion; shear and moment of beams; columns. Includes scale model analysis and testing of tower and column-type structures.

ETG 2949, COOP/Work Experience/Engineering COOP/Work Experience/Engineering

1 hr., 1 cr.,

1-3 crs. Cooperative Education courses may be taken toward completion of most of the Associate in Arts and Associate in Science degree programs. A maximum of six credit hours may be used in meeting the A.A. degree requirements. Prerequisite: Minimum of 2.0 GPA, meet with the co-op coordinator, and availability of co-op work experience slot. Supervised, practical work experience that seeks to combine theories and apply practical skills to projects in the student's major field of study. Requirements include online weekly, mid-term, and end-of-term reflection assignments.
