EGEN - ENGINEERING: GENERAL

EGEN 105 Intro to General Engineering.  2 Credits
Term Typically Offered: Fall, Spring
Provides students an opportunity to explore the fields of engineering, engineering technology, and computer science. Other topics include engineering design, career opportunities, professionalism, and ethics.
Lecture Hours 2
Department: Sciences - Biology & Phys Sci

EGEN 201 Engineering Mechanics-Statics.  3 Credits
Term Typically Offered: Fall, Spring
Prerequisite(s): PHSX 220 & PHSX 221.
Corequisite(s): M 273.
Covers the equilibrium of particles and rigid bodies; static analysis of structures including trusses, beams, frames, and machines; coulomb friction, area and mass centroids; and moments and products of inertia.
Lecture Hours 3
Department: Sciences - Biology & Phys Sci

EGEN 202 Engineering Mechanics-Dynamics.  3 Credits
Term Typically Offered: Spring
Prerequisite(s): EGEN 201.
Covers kinematics, kinetics, work-energy, and impulse-momentum for particles and rigid bodies.
Lecture Hours 3
Department: Sciences - Biology & Phys Sci

EGEN 205 Mechanics of Materials.  3 Credits
Term Typically Offered: Spring
Prerequisite(s): EGEN 201.
Covers stress and strain, Hooke's Law, thermal strain, torsion, bending of beams, combined stress, limit analysis, energy methods, virtual work, and column theory.
Lecture Hours 3
Department: Sciences - Biology & Phys Sci

EGEN 298 Cooperative Educ/Internship.  1-9 Credits
Department: Sciences - Biology & Phys Sci