

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