EGEN 201. Engineering Mechanics—Statics. 3 Credits. (3 Lec) F,S,Su On Demand.
PREREQUISITE: PHSX 220 or PHSX 240. COREQUISITE: M 273Q or M 283Q.
Equilibrium of particles and rigid bodies; static analysis of structures including
trusses, beams, frames and machines; coulomb friction; area and mass centroids,
moments and products of inertia.

EGEN 310R. Multidisciplinary Engineering Design. 3 Credits. (Lec) F
PREREQUISITE: Junior standing in an Engineering curriculum or consent of
instructor. Introduces engineering students to topics such as design process, creative
design, project management, teamwork, and technical leadership while highlighting
the skills needed to work in an multi-disciplinary environment.

EGEN 325. Engineering Economic Analysis. 3 Credits. (3 Lec) S
PREREQUISITE: Junior standing, M 171Q or M 165Q, or instructor approval.
Methods for comparing and evaluating capital investment alternatives. Concepts
include the time value of money, rates of return, cash flows, incremental analysis,
depreciation, influences of taxes, inflation and deflation, depreciation, replacement
analysis. Emphasis is placed upon evaluating various engineering alternatives.
Some open-ended design problems are included.

EGEN 330. Business Fundamentals for Technical Professionals. 3 Credits. (3 Lec) F,S,Su
PREREQUISITES: Junior Standing; and M 171Q or M 165Q. Basic business topics
for engineers and other technical professionals. Introduces key topics related to
financial statements, accounting practices, project management, and evaluation of
capital investment alternatives including present worth, rate of return, and after-tax
analysis methods.

EGEN 335. Fluid Mechanics. 3 Credits. (3 Lec) F,S,Su On Demand.
PREREQUISITE: PHSX 205 or PHSX 220 or PHSX 240. COREQUISITE: M
166Q or M 172Q or M 182Q. Force systems in equilibrium and applications to
structural trusses and frames; section properties; distributed force systems; shear
and moment distributions in beams; basic particle dynamics.

EGEN 338. Business Statistics. 3 Credits. (3 Lec) F,S,Su On Demand.
PREREQUISITES: EGEN 201 or EGEN 221 and M 273Q or M 283Q. Kinematics,
kinetics, work-energy, and impulse-momentum for particles and rigid bodies.

PREREQUISITE: EGEN 201 or EGEN 221, M 171Q or M 165Q. Basic statistical
analysis methods.

EGEN - General Engineering

Session
Term 2017 Summer
CRN 10276 001
Section First Half
Session MTWR
Location ROBH307
Time 10:00am - 11:05am

Term 2017 Summer
CRN 10276 001
Section First Half
Session TR
Location ROBH307
Time 3:00pm - 4:05pm

Term 2017 Summer
CRN 10706 002
Section First Half
Session
Location
Time

PREREQUISITE: EGEN 201 or EGEN 221 and M 273Q or M 283Q. Force systems in equilibrium and applications to structural trusses and frames; section properties; distributed force systems; shear and moment distributions in beams; basic particle dynamics.

EGEN 203. Applied Mechanics. 3 Credits. (3 Lec) F,S,Su On Demand.
PREREQUISITE: EGEN 201 or EGEN 221, M 273Q or M 283Q. Force systems in equilibrium and applications to structural trusses and frames; section properties; distributed force systems; shear and moment distributions in beams; basic particle dynamics.

EGEN 205. Mechanics of Materials. 3 Credits. (3 Lec) F,S,Su On Demand.
PREREQUISITE: EGEN 201 or EGEN 221. Stress and strain, Hooke’s Law, thermal strain, torsion, bending of beams, combined stress, limit analysis, energy methods, virtual work, column theory.

EGEN 208. Applied Strength of Materials. 3 Credits. (3 Lec) F,S,Su On Demand
PREREQUISITE: EGEN 201 or EGEN 203 or EGEN 221. Equilibrium and deformation of structural elements; concepts of stress and strain and interrelationship; representation and transformation of combined stress states; axial, torsional and flexural stresses and deformation; column buckling.
Font Notice

This document should contain certain fonts with restrictive licenses. For this draft, substitutions were made using less legally restrictive fonts. Specifically:

Times was used instead of Adobe Garamond Pro.

The editor may contact Leepfrog for a draft with the correct fonts in place.