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.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 10276 | 001 | First Half | MTWR | ROBH307 | 10:00am - 11:05am
2017 Summer | 10276 | 002 | First Half | TR | ROBH307 | 3:00pm - 4:05pm
2017 Summer | 10706 | 802 | First Half | - | - | -

PREREQUISITE: EGEN 201 or EGEN 221 and M 273Q or M 283Q. Kinematics, kinetics, work-energy, and impulse-momentum for particles and rigid bodies.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 10437 | 001 | First Half | MTWR | ROBH307 | 8:00am - 9:40am
2017 Summer | 10707 | 802 | First Half | - | - | -

EGEN 203. Applied 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.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 10759 | 001 | First Half | MTWR | ROBH210 | 8:00am - 9:40am

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.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 10455 | 001 | Second Half | TR | ROBH210 | 7:55am - 9:55am
2017 Summer | 10455 | 002 | Second Half | MW | ROBH307 | 8:00am - 9:15am
2017 Summer | 10708 | 802 | Second Half | - | - | -

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.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 10773 | 001 | Second Half | MTWR | ROBH301 | 8:00am - 9:40am

EGEN 300. 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.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 11407 | 001 | First Half | TR | ROBH208 | 11:15am - 1:35pm
2017 Summer | 11089 | 802 | Second Half | - | - | -

EGEN 325. Engineering Economic Analysis. 3 Credits. (3 Lec) F,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.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 10157 | 001 | First Half | - | - | -

EGEN 335. Fluid Mechanics. 3 Credits. (3 Lec) F,S,Su On Demand.
PREREQUISITE: EGEN 202, EGEN 205. Introduction to modern fluid mechanics.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 10751 | 001 | First Half | - | - | -
2017 Summer | 11089 | 001 | Second Half | - | - | -

EGEN 350. Applied Engineering Data Analysis. 2 Credits. (2 Lec) F,S,Su
PREREQUISITE: M 166Q or M 172Q. An overview of data variability and applied statistical analysis techniques for a broad range of engineering disciplines. Topics include fundamentals of probability, essential probability distributions, hypothesis testing, experimental design strategies, and regression in the context of engineering applications. Evening exams required. Common final.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2017 Summer | 10296 | 001 | First Half | MTWR | ROBH210 | 10:00am - 11:05am
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.