EGEN - General Engineering

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, 
membrane and products of inertia.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 10706 | 801 | May Start | - | - | -
2018 Summer | 10276 | 001 | May Start | MTWR | ROBH307 | 11:00am - 1:35pm

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

Common Exams.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 10707 | 801 | June-start: 4x4 | - | - | -
2018 Summer | 10437 | 001 | June-start: 4x4 | MTWR | ROBH307 | 11:00am - 1:35pm

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, 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
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 10759 | 001 | May Start | MTWR | ROBH210 | 8:00am - 10:35am

EGEN 205. Mechanics of Materials. 3 Credits. (3 Lec) Su On Demand. 
PREREQUISITE: EGEN 201 or EGEN 221 and M 273Q or M 283Q. 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
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 10708 | 801 | June-start: 4x4 | - | - | -
2018 Summer | 10455 | 001 | June-start: 4x4 | MTWR | ROBH312A | 8:00am - 10:35am

EGEN 208. Applied Strength of Materials. 3 Credits. (3 Lec) Su On Demand. 
PREREQUISITE: EGEN 201 or EGEN 203 or EGEN 221 and M 166Q or M 172Q or M 182Q. 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
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 10773 | 001 | June-start: 4x4 | MTWR | ROBH301 | 8:00am - 10:35am

EGEN 310R. Multidisciplinary Engineering Design. 3 Credits. (3 Lec) F,S 
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 a multi-disciplinary environment.

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 10869 | 001 | May Start | MTWR | JABS111 | 11:00am - 1:35pm
2018 Summer | 11188 | 002 | First Half | - | - | -

EGEN 330. Business Fundamentals for Technical Professionals. 3 Credits. (3 Lec) F,S,Su 
PREREQUISITEx: 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
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 11407 | 001 | May Start | MTWR | ROBH301 | 11:00am - 1:35pm

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
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 10751 | 802 | Second Half | - | - | -
2018 Summer | 11089 | 801 | July-start: 4x4 | - | - | -

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 

Term | CRN | Section | Session/Dates | Days | Location | Time
--- | --- | --- | --- | --- | --- | ---
2018 Summer | 10296 | 001 | May Start | MTWR | ROBH307 | 9:00am - 10:45am
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.