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,
moments and products of inertia.

Term CRN Section Session/Dates Days Location Time
2020 Summer 10497 801 May-start: 4x4 - - -
2020 Summer 10183 001 May-start: 4x4 ROBERT112 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.

Term CRN Section Session/Dates Days Location Time
2020 Summer 10498 801 June-start: 4x4 - - -
2020 Summer 11334 001 May-start: 4x4 ROBERT312 8:00am - 10:35am
2020 Summer 11366 0 May-start: 4x4 - - -

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
2020 Summer 10328 001 May-start: 4x4 ROBERT312 8:00am - 10:35am
2020 Summer 10499 801 May-start: 4x4 ROBERT312 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 an multi-disciplinary environment.

Term CRN Section Session/Dates Days Location Time
2020 Summer 10632 001 May-start: 4x4 NAH149 11:00am - 1:35pm

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, ethics, 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
2020 Summer 10915 001 May-start: 4x4 ROBERT106 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
2020 Summer 10778 801 First Half - - -
2020 Summer 11335 001 First 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

Term CRN Section Session/Dates Days Location Time
2020 Summer 10203 001 May-start: 4x4 MTWR NAH153 9:00am - 10:45am

EGEN 541. Thry Magnetic Resonance Imag I. 3 Credits. (3 Lec) F,S
PREREQUISITE: Graduate standing, or consent of instructor. Advanced topics
in NMR phenomena including relaxation, diffusion, chemical shift, and magnetic
susceptibility, as well as experimental aspects including phase cycling, magnetic
field gradients, rf coil, tuning and matching and pulse sequence development will
be covered.

Term CRN Section Session/Dates Days Location Time
2020 Summer 11259 001 Full Semester ROBERT106 9:00am - 12:00pm
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.