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.

<table>
<thead>
<tr>
<th>Term</th>
<th>CRN</th>
<th>Section</th>
<th>Session/Dates</th>
<th>Days</th>
<th>Location</th>
<th>Time</th>
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<tbody>
<tr>
<td>2019 Summer</td>
<td>10533</td>
<td>801</td>
<td>June-start: 4x4</td>
<td>0</td>
<td>ONLINEWEB-Session</td>
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<tr>
<td>2019 Summer</td>
<td>10280</td>
<td>001</td>
<td>May-start: 4x4</td>
<td>MTWR</td>
<td>ROBERT312A</td>
<td>11:00am - 1:35pm</td>
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</tbody>
</table>

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
2019 Summer 10534 801 June-start: 4x4 - ONLINEWEB-Session
2019 Summer 10342 001 May-start: 4x4 MTWR ROBERT307 11:00am - 1:35pm Session

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
2019 Summer 10572 001 May-start: 4x4 - - - Session

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
2019 Summer 10555 801 May-start: 4x4 - ONLINEWEB-Session
2019 Summer 10356 001 June-start: 4x4 MTWR ROBERT312A 8:00am - 10:35am Session

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
2019 Summer 10586 001 June-start: 4x4 - - - Session

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
2019 Summer 10674 001 May-start: 4x4 MTWR JABS111 11:00am - 1:35pm Session

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
2019 Summer 10991 001 May-start: 4x4 MTWR ROBERT301 11:00am - 1:35pm Session

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
2019 Summer 10832 801 First Half ONLINEWEB-Session

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
2019 Summer 10220 801 May-start: 4x4 MTWR NAH153 9:00am - 10:45am Session
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.