

EGEN - General Engineering

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
2020 Summer Semester	10497	801	May-start: 4x4	-	-	-
2020 Summer Semester	10183	001	May-start: 4x4	MTWR	ROBERT312	11:00am - 1:35pm

EGEN 202. Engineering Mechanics -- Dynamics. 3 Credits. (3 Lec) F,S,Su On Demand.

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
2020 Summer Semester	10498	801	June-start: 4x4	-	-	-
2020 Summer Semester	11334	001	May-start: 4x4	-	-	-
2020 Summer Semester	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 Semester	10328	001	May-start: 4x4	MTWR	ROBERT312	8:00am - 10:35am
2020 Summer Semester	10499	801	May-start: 4x4	-	-	-

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
2020 Summer Semester	10632	001	May-start: 4x4	MTWR	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 Semester	10915	001	May-start: 4x4	MTWR	ROBERT301	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 Semester	10778	801	First Half Session	-	-	-
2020 Summer Semester	11335	001	First Half 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
2020 Summer Semester	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 Semester	11259	001	Full Semester	T	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.