Basic Engineering Courses

Courses

Graphic Fundamentals in Engineering Design: [TCCN ENGR 1204] Fundamentals of multiview projections, auxiliaries, sections, pictorial drawings, dimensioning; introduction to CAD, decision process, and geographical information systems.

Department: Basic Engineering
2 Credit Hours
4 Total Contact Hours
3 Lab Hours
1 Lecture Hour
0 Other Hours

BE 2303. Intro. to Mats. Sci. and Engr..
Introduction to Materials Science and Engineering: [TCCN ENGR 2332] Introduction to properties of engineering materials and relationships to their structure, behavior, and processing; materials testing and measurement of properties. Selection of materials for engineering applications considering interrelationships between structure, properties, processing, and performance.

Department: Basic Engineering
3 Credit Hours
3 Total Contact Hours
0 Lab Hours
3 Lecture Hours
0 Other Hours
Prerequisite(s): (CHEM 1305 w/C or better)

BE 2338. Mechanics II.
Mechanics II: [TCCN ENGR 2302] A second course in Newtonian mechanics; dynamics (kinematics and kinetics) of particles and rigid bodies; work and energy; impulse and momentum.

Department: Basic Engineering
3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours
Prerequisite(s): (MATH 1312 w/C or better ) OR (MATH 2313 w/C or better ) OR (MATH 2326 w/C or better)

BE 2375. Intro. to Thermal-Fluid Sci..
Introduction to Thermal-Fluid Science: [TCCN ENGR 2334] An introduction to the basic concepts of thermodynamics and fluid mechanics to include properties, property relationships, states and fields. Presentation of the basic equations of thermal-fluid science, continuity, first and second laws of thermodynamics and momentum. BE 2338 may be taken concurrently with BE 2375.

Department: Basic Engineering
3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours
Prerequisite(s): (BE 2338 w/C or better ) OR (MECH 2338 w/C or better)

BE 2377. Electrical Circuits and Motors.
Electrical Circuits and Motors: [TCCN ENGR 2305] Principles of electrical circuits, generators, and motors. Introduction to electronics and introduction to microprocessors for data acquisition.

Department: Basic Engineering
3 Credit Hours
5 Total Contact Hours
3 Lab Hours
2 Lecture Hours
0 Other Hours
Prerequisite(s): (PHYS 2421 w/C or better ) OR (PHYS 2411 w/C or better)
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