

ENGINEERING (ENGR)

ENGR 1100. Intro to Engineering. (3 Credits)

Prerequisite: Completion of or concurrent enrollment in MATH 1113.

Credit Hours: (3-0-3) A course that will provide students with an overview of various engineering disciplines to help them make well informed career choices in the profession. Main topics include the nature of the field and career opportunities in civil, chemical, electrical, industrial, mechanical, and other major engineering disciplines. The course will also emphasize the tools of technical communication including: recording, analyzing, S1 conversion, curve fitting/regression analysis. Statistical tools for quality control, material balance, energy resources, and engineering economics will also be explored. Team work for a project may be required for course completion.

ENGR 1111. Intro to Engineering Graphics. (3 Credits)

Prerequisite: MATH 1113 Credit Hours: (2-2-3) This course covers the theory and application of the design process using conventional drafting as well as CAD techniques. Development and interpretation of drawings and specifications for product realization are covered, as are elements of projection theory that enhance the ability to communicate graphically.

ENGR 2201. Statics. (3 Credits)

Prerequisite: PHYS 2211K and completion of or concurrent enrollment in MATH 2501. Credit Hours: (3-0-3) A course that will emphasize the principles of Statics (the branch of mechanics that deals with bodies at rest or forces in equilibrium) in two and three dimensions. Internal forces in trusses, frames, machines, and continuous beams will also be covered. Other topics include dry friction, and the calculation of centroids/center of masses of curves, areas and volumes.