Engineering (ENGR)

Courses

ENGR A105A Engineering Graphics 1 Credit
Introduces engineering graphics without the use of software. Focuses on hand drawing skills with an emphasis on orthographic projections, isometric views, auxiliary views and sectional views.

ENGR A105B Computer-Aided Graphics 1 Credit
Focuses on the use of computer-aided design (CAD) software as a tool for creating engineering graphics.

Prerequisites: ENGR A105A.

ENGR A151 Introduction to Engineering 1 Credit
An introduction to engineering, both as a profession and as a field of study. Introduces students to the roles, responsibilities and capabilities of civil, computer systems, electrical and mechanical engineers.

ENGR A161 Engineering Practices II 3 Credits
Presents the basic skills required of engineers for using computers to solve engineering problems and presenting results in a professional form. Application of computation methods and tools for practicing engineering. Introduction to computer programming and engineering problem solving softwares including visual basic in spreadsheets, Matlab, and Mathcad.

Prerequisites: (MATH A151 and MATH A152) or MATH A155.

ENGR A495 Engineering Internship 1 Credit
Professional work experience designed to provide students with the opportunity to investigate the practical applications of engineering design within engineering organizations. Assignments and projects arranged with cooperating organizations and agencies.

Registration Restrictions: Instructor permission.