

# ENGINEERING (ENGR)

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**ENGR 1103. Principles of Engineering Analysis and Design. (3 Credits)**

In this course, the field of engineering is introduced by an elementary presentation of the principles of the engineering sciences such as mechanics, thermodynamics and scientific computing (utilized in the analysis and design of engineering problems). Prerequisite(s): MATH 1113 Offered: Fall, Spring, Summer .

**ENGR 1200. Engineering Computing. (3 Credits)**

This course is designed to provide students with the basic concepts of structured programming with an emphasis on developing algorithm, pseudo code, flowchart and programming in a modern high level language. Different software tools will be used to introduce various engineering problem solving techniques. Offered: Fall, Spring, Summer.

**ENGR 1203. Engineering Graphics. (3 Credits)**

This course is an introduction to graphic communication and engineering design. It includes orthographic, sectional, and auxiliary views, sketching, drawing, projection theory, tolerances and computer-aided graphics. Course Prerequisite(s): READ 0099, ENGL 0989 or satisfactory English score to place into co-requisite remediation or higher. Offered: Fall, Spring, Summer.

**ENGR 2201. Engineering Statics. (3 Credits)**

In this course, the principles of statics (vector based) in two and three dimensions will be covered. Concept of force, moment equilibrium principles, truss, center of gravity and friction will be taught by solving realistic problems. This course is designed for Pre-Engineering majors. It will satisfy the requirement by Georgia Institute of Technology for the Regents Engineering Transfer Program and the dual degree program. Prerequisite(s): PHYS 2221K US and ENGR 1103 US Offered: Fall, Spring, Summer.

**ENGR 2413. Electric Circuit Analysis. (3 Credits)**

In this course, the study and analysis of AC and DC electric circuits, circuit elements, steady state and transient analysis and applications will be covered. (This course is recommended for majors in Electrical Engineering). Prerequisite(s): ENGR 1103, PHYS 2212K and MATH 2213 Offered: Fall, Spring, Summer.