

EGR - ENGINEERING TECH (EGR)

EGR 130 Engineering Technology Applications and Programming 3 SHC

This course covers the development and use of computer programs to solve engineering technology problems. This problem-based course also introduces students to fundamental concepts of engineering design processes and systems.

Corequisites: MAT 102 or appropriate placement test scores.

Lecture Hours: 1

Lab/Clinical Hours: 6

EGR 170 Engineering Materials 3 SHC

This course is a study of the properties, material behaviors, and applications of materials used in engineering structures and products.

Prerequisites: MAT 110.

Lecture Hours: 2

Lab/Clinical Hours: 3

EGR 175 Manufacturing Processes 3 SHC

This course includes the processes, alternatives, and operations in the manufacturing environment. Metal working and forming processes include casting, forging, presswork, machining and turning.

Corequisites: MAT 110.

Lecture Hours: 2

Lab/Clinical Hours: 3

EGR 194 Statics and Strength of Materials 4 SHC

This course covers external and internal forces in structures and/or machines, including conditions of equilibrium, systems of force, moments of inertia and friction. It also covers the stress/strain relationships in materials.

Prerequisites: MAT 110, MAT 111 and (PHY 201 or PHY 221).

Lecture Hours: 3

Lab/Clinical Hours: 3

EGR 226 Engineering Economics 3 SHC

This course is a study of basic engineering economics, including principles of equivalence, return on investment, evaluation of alternatives, the effects of taxes on economic analysis and replacement policies.

Prerequisites: MAT 110.

Lecture Hours: 3

Lab/Clinical Hours: 0