

GENERAL ENGINEERING (GNEN)

GNEN 1000 Introduction to Engineering

[3 credit hours]

A course designed to explore the various disciplines of engineering in historical, present, and future context while incorporating basic design principles in an interdisciplinary model.

Term Offered: Fall

GNEN 1010 Professional Development

[1 credit hour]

In this course students will gain a better understanding of the professional and ethical responsibilities of an engineer and the impact of engineering solutions in a global/societal context. In addition, they will explore career opportunities available to engineers. They will develop a better understanding of the importance of effective communication, presentation, and team collaboration skills in securing employment and in being successful in the workplace as well as the importance of professional registration and life-long learning.

Term Offered: Spring

GNEN 1500 Sustainability Living

[3 credit hours]

Sustainable Living explores the sustainability of our lifestyle choices. Core sustainability principles and the importance of assessment to evaluate options are introduced. These guiding foundational concepts are used to evaluate the sustainability of our consumption of water, energy, and goods as well as how to improve the quality of life for the world's population without comprising ethical standards. Students will be challenged to adopt and assess the effect of a lifestyle on their consumption.

GNEN 1800 Engineering Applications of Mathematics

[3 credit hours]

Solution of engineering applications using mathematical concepts ranging from algebra to differential equations. Examples from the first two years of engineering coursework are solved in class and explored in corresponding laboratory experiments. The objective of this course is to provide an engineering context for subsequent courses in mathematics. Intended for students prior to Calculus.

Term Offered: Fall