

CIVIL ENGINEERING (CGN)

CGN 3323C - Surveying and Geomatics (3 Credits)

Introduction to elementary surveying practices such as autolevel, total station, global positioning system (GPS) as well as covering highlights of construction materials, tools, and techniques. In addition geomatics, the study of spatially related data, will be introduced. Instruction will cover the integrated approach of measurement, analysis, and management of the descriptions and locations of Earth-based data. This course is inquiry based and fully integrated with field experience that emphasizes active learning strategies.

Prerequisite(s): EGM 3420C

CGN 4321C - GIS in Civil and Environmental (3 Credits)

Introduction to the basics of geographic information systems, their software and hardware, and their applications in civil and environmental engineering.

Prerequisite(s): EGN 2111C

CGN 4802 - Civil Engin Senior Design (3 Credits)

Civil engineering capstone design is a cornerstone in engineering education. During this course the students will assimilate the engineering concepts acquired in previous courses into the design of a major civil engineering project, including where appropriate developing alternative solutions, plans and specifications and an oral and written presentation of their final design to their clients. Previously CGN 4802C, ended 201408.

Prerequisite(s): EGN 3441C and CEG 3011C and CCE 4031C and CWR 4540C and TTE 3002C and ENV 3006C and (CES 4702C or CES 4605C or CES 4605)

Attribute(s): SUSC - Sustainability Component

CGN 4930 - Special Topics Civil Eng (1-3 Credits)

Topics in civil engineering not covered by other courses. Instructor Permission required.