

CIVIL CONSTRUCTION ENGINEER (CCE)

CCE 3101C - Civil Engineering Materials (3 Credits)

Design of asphalt concrete and portland concrete cement mixtures.

Analysis, evaluation, and hands on laboratory testing of commonly used civil engineering materials, including asphalt binder, hot-mix-asphalt, aggregates, portland concrete cement, wood, composites. Pavement construction and quality control, quality assurance methods of asphalt mixtures.

Prerequisite(s): EGN 3331C

Attribute(s): SUSC - Sustainability Component

CCE 4031C - Project Planning & Regulations (3 Credits)

Introduction to techniques for planning activities, operations, finance, budget, workforce, quality, safety, and other issues related to civil and environmental engineering planning. This includes the process of locating, discovering, and studying local, state, and federal regulations/codes. The curriculum is integrated with laboratory exercises that emphasize blueprint reading, quantity takeoff and learning software packages used in cost estimating and project scheduling and controls.

Prerequisite(s): EGN 2111C

Attribute(s): SUSC - Sustainability Component

CCE 4204C - Construction Methods & Managmt (3 Credits)

Introduction to construction engineering, field operations, and construction management.

Prerequisite(s): CEG 3011C