C E 315: Civil Engineering Materials

**Civil Engineering**

Fundamental concepts of materials science including the structure and properties of materials and their relationship to material selection and system design; classification of materials; properties and behavior of construction materials including soils and aggregates, cement, concrete, metals, wood, asphalt, composites, and other new materials; mix design procedures and properties of Portland cement concrete and bituminous/asphalt mixtures; quality control and quality assurance.

**3 Credits**

**Prerequisites**
- C E 315 Requires: One Way-Co-Requisite C E 431

**Instruction Type(s)**
- Lecture/Lab: Lecture/Lab for C E 315

**Course Fee(s)**
- Civil Engineering 2
  - $100.00

**Subject Areas**
- Civil Engineering, General
- Materials Engineering