

# C E 315: Civil Engineering Materials

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

#### **One-way corequisites**

<u>C E 431: Soil Mechanics I</u>

### Instruction Type(s)

Lecture/Lab: Lecture/Lab for C E 315

## **Subject Areas**

- <u>Civil Engineering, General</u>
- Materials Engineering

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