

## **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

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

- [C E 431: Soil Mechanics I](#)

#### **Instruction Type(s)**

- Lecture/Lab: Lecture/Lab for C E 315

#### **Subject Areas**

- [Civil Engineering, General](#)
- [Materials Engineering](#)

