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

**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

**Related Areas**
- Geotechnical and Geoenvironmental Engineering
- Structural Engineering
- Transportation and Highway Engineering
- Water Resources Engineering