C E 481: Transportation Engineering I

**CIVIL ENGINEERING**

Major transportation modes and their characteristics; mechanics of motion; geometric and intersection design; traffic flow theory; probabilistic methods; capacity analysis; planning models; environmental impact analysis; economic evaluation; Intelligent Transportation System (ITS) and computer applications.

3 Credits

**Prerequisites**
- C E 207: Surveying

**One-way corequisites**
- Math 353: Elementary Differential Equations
- Engr 310: Engineering Analysis I

**Instruction Type(s)**
- Lecture: Lecture for C E 481

**Course Fee(s)**
Civil Engineering 2
- $100.00 when booked for:
  - Fall, First Fall, Second Fall, Winter, Spring, First Spring, Second Spring 2017-18

**Subject Areas**
- Civil Engineering, General
- Transportation and Highway Engineering

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