

CE 561: Applied Foundation Engineering

Course Description:

Analysis and design of shallow and deep foundations, lateral earth pressure theories and retaining structures, field investigations, in-situ testing, and foundations on problematic soils. Foundation engineering reports.

Course objectives (course designed to provide students with):

To explore advanced foundation engineering concepts and develop skills in the art of foundation engineering and design.

Course Topics

- Deep foundations
- Driven piles
- Drilled shafts
- Earth retaining structures
- Load and Resistance Factor Design (LRFD)
- Computer applications as applied to foundation engineering