General Information

Time: Thursday, 6:50-9:20 p.m.
Room: 834 Mudd
Office: 632 Mudd
Office Hour: Wednesday, 2:00 - 4:00 p.m.

Teaching Assistant:
Jianhong Jiang (212-854-3153; jj2279@columbia.edu)
Monday, 1:00-3:00 pm (TA Room)

Grading
Homework (20%);
Exam (closed book)
Midterm Examination (40%); Final Examination (40%)

Course Descriptions
Foundation Engineering: Art or Science?
Classical versus Advanced Method of Analysis/Design
Design Examples
- Review of soil mechanics
- Shallow foundation - Bearing capacity and settlement/deformation
- Deep foundation (Piles) - Bearing capacity and settlement
- Lateral earth pressure - Rankine and Coulomb earth pressure theories
- Gravity and cantilever retaining walls
- Reinforced soil retaining walls
- Sheet pile walls - cantilever and anchored
- Braced excavation
- Slope stability