

What you need to know about CE277 Lecture 1

After taking Lecture 1, you should be able to answer the following questions.

1. For your answer in this course, how many significant digits is the maximum limit?
2. The definition of Foundation Engineers. (Will not be in your exam but an important concept)
3. The general approach of foundation design.
What prework and preparation should you do to understand the project?

What are the three basic design criterias for your design?

What takes 1/3~1/2 of the budget of a design report? And what do you need to do for this part? Prof. Bray did not state this point this year so take a guess. Think about which step is the most important for your analysis (maybe Plaxis etc.).

What will be useful for optimizing future foundation design after your design for a project?

4. Earth Retaining Structure (First topic of this course)
Lateral Earth Pressure
Level ground, at rest conditions. The value of K_0 for clay and sand, for NC and OC soil.