

CEE 243 - Predicting and Measuring Building
Energy Use:
Agenda: April 8

Wednesday: building tour; Y2E2 data
collection

Homework: energy analysis

Homework for April 15

Do a simple energy analysis of a (simple) building

1. Start

- Show and describe a simple BIM
- Make assumptions: location in the world; orientation; uses; ...

2. Predict energy use:

- choose an energy analysis tool, e.g.,
<http://www.stanford.edu/class/cee111/Labs/Lab4.htm>

3. Make a design change in your BIM that you predict should affect energy use, e.g., window area ratio, wall material type

- Annotate 3D renderings to show design differences

4. Compare predicted energy for baseline and intervention BIMs

- Annotate to show and explain differences

Background reading

- GSA 2009: "GSA Building Information Modeling Guide Series 05 – Energy Performance"

