Arch 594BCS: Building Energy Case Studies

Fall 2018
Prof. Rick Strand
Class Schedule: TuTh 11:00AM-12:20PM

Course Description

In the US, buildings consume 40% of all energy, and much of this energy consumption is directly related to the design decisions that are made by the architect. This course will explore a variety of decisions such as envelope, windows, natural ventilation, etc. for different building types and climates using the building energy simulation program EnergyPlus and assess the impact of those decisions on building energy consumption. Knowledge of energy simulation is not necessary as this course will also serve as an introductory tutorial to building energy simulation. For more information, contact Prof. Strand via email at rkstrand@illinois.edu

Course Objectives

- Obtain a basic knowledge of EnergyPlus through one or more interfaces
- Develop an understanding of the potential impact of design decisions on building energy consumption
- Critically assess and improve building energy efficiency