

ARCH 594 SIM BUILDING ENERGY SIMULATION

SPRING 2025

PROF. RICK STRAND

CLASS SCHEDULE: THURSDAYS 11:00AM-1:50PM

Course Description

In the US, buildings consume roughly 40% of all energy and this percentage continues to rise annually. Forward thinking architectural firms are now using energy simulation during the design process to drastically reduce building energy consumption during the design phase. This course will focus on learning one energy simulation program and how to use it effectively to model building energy performance. Final projects will involve modeling a studio project or an existing building.

Course Objectives

- Energy Simulation Concepts
- EnergyPlus Program
- EnergyPlus Related Tools
- Effective Use of Simulation

Course Requirements

- Graduate student or seniors who have taken Arch 434
- Laptop running recent version of Windows or Windows emulation software

