Building Construction
ARCH 470 / 570

Instructor: Tom Hahn
Lecture: Tu/Th 8:30-9:50, 115 LA
Lab: see schedule for days, times
4 credits

Description
This course is designed to provide students with an introduction to the four major building construction systems (wood, masonry, steel & concrete), as well as significant alternatives and innovations related to them, in terms of material properties (qualities, components, and performance, in environmental and building code contexts) and their methods of assembly (organizational, constructability, finish and detailing considerations). Students will learn about these topics in lecture, readings and lab discussions, and then engage with them through construction system layout and detail drawings and model making, and in building wall and roof assembly design and analysis, based on quantitative dimensional and environmental factors. The course will be conducted in a lecture plus lab format, and will include readings, field trips, exams, projects, lab exercises and discussions.

Eligibility
This is a required course for professional majors in the Department of Architecture. Architecture undergraduate students (ARCH 470) are required to have completed two terms of design studio, and graduate students (ARCH 570) are required to have completed one term of design studio, in advance of taking this course. The course is also open to graduate students in Environmental Studies with instructor approval.