

ARCH 470/570 - Fall 2024

BUILDING CONSTRUCTION

Lecture: Tu/Th 8:30-9:50am in 177 Lawrence Hall (CRN 10365 or 10426)

Lab (required): see UO class schedule for days, times, locations and CRN's
4 credits

Instructor: Thomas Hahn, tomh@uoregon.edu



"Architecture is the scientific art of making structure (...and construction...) express ideas" Frank Lloyd Wright

This course is designed to provide students with an introduction to the four major building construction materials/systems (wood, masonry, steel, and 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.

This course is a Core Curriculum requirement for BARCH, MARCH, and BIARC. Approved for: 2nd year undergraduate students who have taken at least two design studios (typ. ARCH 283 & 284), and 1st year Track 1 graduate students who have taken at least one design studio (typ. ARCH 680) The course is also open to graduate students in Environmental Studies or other related majors, pending instructor approval, space availability, and/or approval by both UO programs.



Architecture Department

1206 University of Oregon, Eugene OR 97403-1206

TEL 541-346-3656 | FAX 541-346-3626 archenvironment.uoregon.edu/architecture