Architecture **410/510**
Building Integrated Livable Designs Sustainably
Fall 2018

OregonBILDS: Sustainable Construction at the Building Site
Linking Design to Construction Through Practical Experience

Professor: Rob Thallon, Associate Professor
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Schedule: (labs) UH 8-12 or UH 1-5 or WF 8-12 or WF 1-5 plus Monday 12-12:50 (workshop)

Format: A hands-on residential construction course integrating construction practice with design. For 3 credits, students will spend 8 hours per week at the construction site or the project shop plus 1.5 hours in class. For 4 credits and Arch advanced technical elective, students will be expected to spend 4 extra lab hours per week. There will be minimal readings.

Prereq's: For 4-credit Arch tech elective: Arch 3rd year UG or grad 2nd year Track 1 or any Track 2
For 3-credit Arch subject area elective: same as above
For 3-credit university general elective: no prerequisites

Credits: Variable (3-4): 3 credits for Arch subject area elective or university general elective
4 credits for advanced technical requirement in Architecture
IDP credit: all students registered with NCARB are eligible for IDP credit

Grading: P/N

UO and LCC students building the frame during W14 term. The basic shell was erected in 4 weeks with the aid of a professional framer.

Street Elevation of the 2018 house design.

Course Description

The hands-on course will focus on the basic principles of residential construction at the construction site. Students will be completing the design and construction of an affordable, sustainable house designed initially by the 2018 winter term OregonBILDS studio. The course will be taught through presentations and on-site instruction that relate design to first-hand construction experience – a unique opportunity for students to translate theory into practice. Student-led project teams working with experienced professionals will construct the building frame and make site-related design decisions. Student teams will resolve on-site design problems in collaboration with the instructor and construction professionals. Sustainability and affordability will be discussed in relation to materials, systems, and methods.

Primary Texts

Allen/Thallon, Fundamentals of Residential Construction, Third Edition, Wiley, 2011
Thallon, Graphic Guide to Frame Construction, Fourth Edition, Taunton, 2016