

Architecture 410/510

Building **I**ntegrated **L**ivable **D**esigns **S**ustainably
Winter 2019

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



- Professor:** Rob Thallon, Associate Professor
371 Lawrence Hall, thallon@uoregon.edu
- 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 hour 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
- Grading:** P/N



Completed house #4



Students working on interior finishes



Students working on subfloor sheathing for house #5

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 2017 winter term OregonBILDS studio and partially constructed by the fall 2018 version of this course. 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 and gain practical experience to influence design work. Student-led project teams working with experienced professionals will complete the exterior of the house and a range of site work as well as design and construct cabinets, shelving, other interior detailing and finishes. 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
Thallon, Graphic Guide to Interior Details, Taunton, 1996