Architecture 410/510
Building Integrated Livable Designs Sustainably
Spring 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 plus Monday 12-12:50 (prep session)

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 on Monday. 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

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 2016 fall term OregonBILDS studio and partially constructed by the fall 2017 and winter 2018 versions 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. Student-led project teams working with experienced professionals will design and construct cabinets, shelving, stairway, other interior and exterior detailing and finishes, and a range of site work including drainage, storm water systems, flatwork, finish grading and planting. 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
Thallon, Graphic Guide to Interior Details, Taunton, 1996
Thallon/Jones, Graphic Guide to Site Construction, Taunton, 2003

Students work on interior finishes
Interior Rendering of the 2015 house
Completed 2016 house