IARC 4/510 - GREEN DESIGN AND BUILD FOR RESIDENTIAL INTERIORS

SCHEDULE
Fall Term 2013
Mondays, 6:00pm - 8:50pm, Lawrence Hall
[Includes 4-5 Saturday work days, approx. 10:00 am -2:00 pm (this term’s site: CASL house, Moss St.)]

CREDITS
3 or 4 credits. If you are taking this course to fulfill the advanced building technology requirement, you must sign up for 4 credits.

PREREQUISITES
One IARC or ARCH 4/584 for Undergraduate Students and Track I Graduate Students.
Track II Graduate Students may take the course in their first term.

INSTRUCTOR
Jan Fillinger, AIA, LEED ap, Adjunct Instructor
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(class coordinator, Alison Snyder absny@uoregon.edu)

COURSE CONTENT
This course is concerned with green/ecologically-based Research, Design, Construction and Administration. The course content is intended for students especially interested in design-build for residential and interior design applications. It is also an excellent complement to courses students have taken or intend to take, such as Design Bridge, Interior Architecture’s construction, finish materials and working drawings courses, and coursework related to OregonBILDS.

We will focus on the design, selection process, costing and constructing of the materials and assemblies that give form to design intent through the components of interior construction: floors, walls, and ceilings, as well as the functional components completing the built space, such as casework, hardware, fixtures, and more. In the discussion of these components we will examine relevant issues of building code, sustainability, functionality, aesthetics, and material properties.

The information gathered will be applicable to many residential and commercial design possibilities. Information learned this term will be applied to a real-life residential construction project in Eugene –the Center for the Advancement of Sustainable Living (CASL). It is intended that different sites will be considered for the future.

COURSE METHODS
The course will require of the students to work independently, as a group, and in small work groups. Individual and group projects will include small focused research projects, design assignments, development of construction details, construction and materials pricing/estimating, development of construction specifications, hands-on construction, and project administration, and more. The course will involve working with and interacting with the CASL representatives,
the OregonBILDS studio, and various other construction and design specialists. Many skills will be gained by being a part of all of these processes.

Course format includes weekly lectures, applied projects, small design charrettes and fieldtrips, so that students can experience the lecture material applied to design exercises, as well as examples of interior architecture in the built environment.

There will be lectures by the instructor and visiting lecturers, design charrettes, reviews and presentations, tours of other construction sites, readings and research for site applications. Outside of class, students will be working/constructing in the AAA Model Shop, UO Craft Center (students will be asked to join), and on-site at the CASL work site on Moss Street. There will be approximately 4-5 Saturday work days (approx. 10 pm-2 pm) counted as part of the outside work of the course.

ADDITIONAL COURSE REQUIREMENTS
Attendance at all classes is expected
Completion of all reading and project assignments
Presentations of research
Quizzes
Participation in required field trip
University Policy on Academic Integrity will be enforced as it applies to requirements

FIELD TRIPS
Typically during the scheduled meeting time.
Occasionally field trips may be scheduled during other convenient times, as needed.
Students will be expected to make your own travel arrangements.

LECTURES AND WORK WILL FOCUS ON:
- Green Materials attitudes and awareness
- Interior Materials research and sourcing (for residential application)
- Basic understanding of Accessibility (ADA)
- Cost Estimating for pre-design, and final design work
- Detailing for Residential Design, components of a small specific set of drawings
- Construction Administration, including material procurements, and project management
- Safety Precautions for construction, installation (will have aid from CASL and/or AAA Tech for orientation and instruction)

Individual and group research and design planning, construction and installation of several components in a residential remodel. With the aid of the instructor, in consultation with the students and CASL, students will be divided into work groups focused on specific work scopes of the overall project.
**COURSE WORK PROJECTS**

The following list relates to the scope of work to be completed during the course of this term, yet all experience gained will be applicable to not only the CASL house, but also the OregonBILDS residence, some designBridge projects, and most interior architecture design projects.

1. **Bathroom full Interior Wall and Floor (ceiling?):** Research, Design Charrette and Price Estimating, Presentation to CASL, Design Selection, Detailing and Specifying, Learning installation skills, Constructing/installing.

2. **Bathroom Cabinetry for 1-2 spaces:** Research, Design Charrette and Price Estimating, Presentation to CASL, Design Selection, Detailing and Specifying, Learning installation skills, Constructing/installing.

3. **Fixture selection and specifying based on the final design selection above:** Toilet, Lavatory, ADA bars, Luminaires.

4. **House Interior Walls Hands-On learning opportunity for everyone in the class:** Colored Pigmented Clay product will be lectured on to understand the positive sustainability and other attributes of this wall material. All students will participate in learning to apply/install to an existing wainscot condition in the main part of the house. Work day will be arranged.

5. **Final compilation of a Course Booklet,** with input by individuals and all teams. Will document processes used for each of the projects, and will include drawings, photos and a reflection component on methods used, as a post-work document.