**Horticultural Building Systems (Design/Build Studio)**
**LA 489/589**
**Summer 2010**
**Instructor: Richard L Hindle**

**Scheduling:**
Dates: 6/21-8/11
Days/Times M,T,W,Th (9-12:50)

**Studio Locations:**
Pacific 201 (code XXXXX)
Pacific 202 (code XXXXX)

**Work/Build Locations**
Lawrence Wood Shop
Federal Courthouse Garden
Urban Farm
Other Locations TBD

**Contact Information:**
Richard Hindle
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T: 516-417-7160

**Class Blog**
http://horticulturalbuildingsystems.blogspot.com/
editors: Richard Hindle, Alexandria Donati

**Studio Concept**
Horticultural Building Systems find their origin in early European sodden roofs, glasshouses, orangeries, ivy clad facades, espaliers, trellises, and have evolved through time to include modern greenhouses, engineered green roofs, living walls, bio-domes, sculpture, bioreactors, and cryogenic preservation chambers. For the purpose of this studio a horticultural building systems is understood as the instance where vegetation and an architectural system exist in a mutually defined, and intentionally designed relationship, that supports plant growth and an architectonic concept.

The rise of horticultural building systems in speculative and built architecture leaves many questions unanswered as each new site becomes a new experiment, with diverse variables from species selection to microclimate, substrates, architectural nuances, project scheduling, and design of horticultural system. A disparity exists between the ubiquity of “green” or vegetative building systems in architectural proposal, and what is actually known about the design, construction, and longevity of these systems. Currently, innovation for horticultural building systems like green roofs and living walls is almost entirely dependent on research and development made by private companies and individuals protected by patent.

This studio course brings the innovative potential of horticultural building systems into the realm of the university, where primary research and unfettered creativity can merge in an open format. This class is an experiment into the potential to hybridize landscape, architecture, and product design. It is also an experiment into the nature of horticultural building systems of which there are few answers, only questions.

**Studio Structure**
Studio meets Monday-Thursday and requires extensive research, design iterations, material resourcing, shop time, building, and documentation. The first two weeks will be composed of a conceptual assignment and a design charrette in order to establish a conceptual dialogue and initiate projects that will be built a full scale in the final 6 weeks of the course. Final projects will range from conceptual prototypes to full scale installations on a project by project basis. There will also be mandatory “work/build” days when the entire group will participate in the
construction of particular elements. You may organize your own "work/build" days to facilitate the construction of your own project as need be.

**Critique Structure**

Critique of your work by outside critiques will be conducted online by uploading images, videos, and text to http://horticulturalbuildingsystems.blogspot.com/ where you can invite professors and industry professionals to review your work and critique your work in the form of comments. Feel free to engage people beyond the university such as designers, horticulturalist, and manufacturers as well as faculty in the department or architecture, landscape, product design, and art at the University of Oregon and at other higher learning institutions. Images, video, and text are to be given to Alexandria Donati for uploading to the blog. Images should be less than 2mb and videos less than 10mb. Images, video, and text should also be emailed to me at the email address above.

**In Class Structure**

During class time we will follow the desk-crit format while in studio, on-site, and in work spaces. As we move from studio based work to shop and full scale building this format will change slightly as I may participate in construction, sourcing materials, and research as needed, but it is important to keep the dialogue between us.

**Material Costs**

As in conventional studios, students are responsible for output costs on the scale of $50-$200. In a conventional studio this cost is associated with printing, model materials, and supplies. In this studio, most resources will be used for material acquisition and full scale construction depending on the project and how resourceful you are at acquiring materials. There is also a departmental budget to purchase bulk materials such as aggregates, soil, and select fasteners, fabric, and plants. These purchases are to be made only by the instructor and are limited to $1,000 for the group. We will seek group material donations, and it is highly recommended that you seek material donations from vendors and suppliers in addition to individual purchases on a project by project basis.

All materials for Assignment #1 are to be donated by BRING recycling or purchased by the department.

**Class Schedule (subject to change)**

**Week 1: 6/21-6/25**
Monday- Introduction, Lecture, Assignment #1 issued
Tuesday- Field Trip (Bring Recycling, Lane Forest Products, Oregon Constant Gardiner)
Wednesday- Wood Shop Orientation and Work Day/Desk Crits
Thursday- Lecture Ecological Template, Field Trip (sedum hunt (walking))

**Week 2: 6/28-7/2**
Monday- Assignment #1 due (Online), Green Roof and Living Wall Lecture, Term-Project Issued
Tuesday- Design Charrette
Wednesday- Design Charrette
Thursday- Design Charrette

**Week 3: 7/5-7/9**
Monday- Holiday
Tuesday- Group work day
Wednesday- Group work day
Thursday- Work day/Desk crits

**Week 4: 7/12-7/16 (Mid-review, Thursday 7/15 (online))**
Week 5: 7/19-7/23
Week 6: 7/26-7/30
Week 7: 8/2-8/6
Week 8: 8/9-8/13 (Final-Review, Wednesday 8/11 (online))

**Grading Policy**
Students are expected to attend class regularly and to be on time. Attendance is required, and 2 or more unexcused absences will result in a No Pass. Students will be required to submit passing work on all major assignments, and for mid and final review, in order to pass the class. Incompletes are an instructor initiated mark, and will be reserved only for those students with a documented special circumstance.

**Policy Statement on Academic Honesty**
All work submitted in this course must be your own and originally produced for this course. The use of sources, ideas, quotations, paraphrases, must be properly acknowledged and documented. For the consequences of academic dishonesty, refer to the Office of Student Life website for information http://studentlife.uoregon.edu/programs/student_judi_affairs/index.htm). Violations will be taken seriously and are noted on student disciplinary records. If you are in doubt as to the requirements or the nature of specific projects in this regard, please do not hesitate to contact me before you complete the project/activity in question.

**Information for Students with Disabilities**
If you have a documented disability and anticipate needing accommodations in this course, please make arrangements to meet with me soon so that we can address any needs as quickly as possible.