

THRIVING THROUGH MAKING - Spring Schedule

What is crucial for making a sustainable building? Working with nature, construction for organizational clarity and expression, environmental systems for air and water systems all contribute to a sound design. Below are weekly topics along with logical deliverables. Students may propose alternative ways to address these issues. The schedule is subject to change

1	3/28-4/1	Remediate missing pieces from Winter term. Confirm Concept, Urban design, plan -section - elevations. ADA/Life Safety code compliance, parking check.
		<p>STRUCTURE - How can resisting gravity and live loads support the design concept? Examine how elements (columns, piers, load-bearing walls, trusses and frames) can heighten spatial experiences and support enclosure vs. openness.</p> <p>a) Research: Identify and analyze structural examples, Research Material assemblies.</p> <p>b) Diagram lines of structure in plan: show vertical core & lateral bracing</p> <p>c) Draw sections showing primary and secondary framing, enclosure at $\frac{1}{2}"=1'=0"$</p> <p>d) Show structural framing in 3D axonometric (digital model)</p> <p>F 1 April Review in Portland: 1:30pm-6pm, UO White Stag Block, 70 NW Couch</p>
2	4/4-4/8	<p>ENVIRONMENTAL SYSTEMS</p> <p>a) Use the Living Building Challenge to expand your project's ecological potential: portray how the project addresses the petals</p> <p>b) Examine Seasonal usage, adjust program distribution and form to reduce loads</p> <p>c) Develop how PASSIVE Solar & Natural Ventilation can be integrated.</p>
3	4/11-4/15	<p>ENERGY SYSTEMS</p> <p>a) Model energy usage of massing, checking % glazing, balance thermal gain & daylighting.</p> <p>b) Study, Select and Diagram ACTIVE heating & cooling zones & circulation</p>
4	4/18-4/22	<p>FAÇADES : SURFACES, PATTERN AND DEPTH</p> <p>a) Consider compositional strategies. Looking at how to use punctures, transparency, overlay. Contemporary collage, Local symmetry, Base-Middle-Top.</p> <p>b) Research Building Products, color schemes that suit the place. Create a Material Palette, Develop rhythms and patterns with a consistent vocabulary of elements.</p> <p>c) Develop enlarged physical Structural Model or detailed digital model</p>
5	4/25-4/29	<p>ENVELOPE ASSEMBLY</p> <p>a) Develop Wall Section considering sun, rain and wind; methods and sequences of construction</p> <p>b) Develop layers of Enclosure on Structural Model</p> <p>F 29 April Midterm Review - tentative time and place to be confirmed.</p>
6	5/2-5/6	<p>INTERIOR SPACE AND LIGHT: The most intimate experience with a building occurs at the scale of the room, where the hand can touch materials and see how connections are made. Consider Inhabitant values, aspirations and daily activities</p> <p>a) Daylighting model</p> <p>b) Tonal renderings (Digital OR Digitally painted version of daylighting model)</p> <p>c) Reflected ceiling plan</p>
7	5/9-5/13	<p>LANDSCAPE & WATER</p> <p>a) Sculpt the land and builds vegetation to support the design (i.e. inviting spaces, barriers, highlights)</p> <p>b) Maximize the aesthetic quality of stormwater and its revitalizing potential, show in vignette & detail sections.</p>
8	5/16-5/20	<p>EXPERIENCE OVER TIME : Night and day, seasonal perspective vignettes or animation to refine choreography of program activities, architectural hierarchy, proportions. Show expression of identity.</p>
9	5/23-5/27	<p>COMMUNICATION : Create layout and schedule, rehearse presentation, develop boards.</p>
10	5/30-6/3	<p>Th 2 June Review #3 FINAL in Eugene, time and place to be confirmed</p>
11	6/7-6-10	<p>Final PDF project summary must be posted by Monday, June 6 at 5pm.</p>