Human-Centered Sustainable Design Module Schedule

Week + Topic		Monday	Wednesday	Friday	Section	Homework
1	Project Start + Bug List Feb. 11-15	Logistics/Overview What is Human- Centered Design? What is Sustainability? Teamwork and MBTI	Needs Finding Good design, bad design Design notebooks	Green building design Green dorm project Share observations from Section Contextual inquiry	 Team Formation, MBTI + team building exercise Mission statement Contextual Inquiry exercise Lab assignment Assign places to visit for contextual inquiry – Green dorm, BEST Lab (will vary with project) 	Individual: good design/bad design Due at End of Lab: Mission Statement, common meeting time
2	Creative design, Bench- marking Selection Feb. 18-22	Holiday President's Day	Life cycle analysis Design for re-use: dumpster diving, recyclables, etc.	Mike Lin and Mitch Heinrich, Design Engineers from Potenco, Inc. Energy analysis, Biomimicry.	 Compile needs, organize needs Brainstorming exercise to develop concepts Personas exercise 	Due at beginning of Lab: Weekend Observations Contextual Inquiry Due at End of Lab: Personas, Revised Mission Statement, 20 team ideas
3	Concept Selection Testing Feb. 25-29	Benchmarking and concept selection. Students will reduce to 2-3 concepts in class before lab.	Framing needs, metaphors, imperatives and 2x2 matrices.	Concept Testing. Go over plans from lab as discussion.	 Revise mission statement Develop ≤ 3 concepts Concept testing plan 	Individual assignment due on Monday: Benchmarking on concepts, ranking of ideas relative to needs and benchmarks. Due in Lab: 3 Selected Concepts, for testing Due at End of Lab: Revised Mission Statement, Develop concepts for testing, testing plan.
4	Prototyping, Testing March 3-7	Overview of prototyping	Break class up into two groups that switch over the 2 days in the Computer Lab: 1. CAD and LSA software 2. Berkeley Prototyping Facilities; FDM, student shop		 Peer review? Concept development and prototyping, testing. Lab location may vary for each project. 	Due in Lab: Select 1 concept and develop Due at end of Lab 3: lessons learned from testing, prototyping plans.

	Finalizing	Design for X,	Extension to third	Communications	Final prototyping and	Due in Lab: ONE idea that
	design &	costing	world applications.	tips	concept development. Lab	has been thought through
5	Prototyping	recommendations			location may vary for each	for prototyping
		for supplies?			project.	Due at end of Lab: rough
						prototype.
	Presentation	Brief summaries of	Invention and	Wrap-up	Presentation, final	Due in Lab: prototype +
		project results.	innovation	Student feedback	prototype, evaluation	short presentation.
			opportunities.	and evaluation,		Due at End of Lab: course
6				Where do I go from		evaluation, self-evaluation,
0				here? Sustainability		plans for Cal Day poster.
				at Berkeley,		
				Human-Centered		
				Design at Berkeley		