

Engineering 39F, Section 1 Community Assessment of Renewable Energy and Sustainability (CARES) Schedule

Week & Date		Topics	Guest Speakers & Instructors	Readings and Videos	Homework
1	8/30/2010	Logistics/Overview	Ryan Shelby	N/A	Due at by Sept 6: Student Survey
2	9/6/2010	No Class (Labor Day)	N/A	N/A	N/A
3	9/13/2010	What is Human-Centered Design?	Alice Agogino	<p>I. Eric Von Hippel, <i>Sources of Innovation</i>, pgs: 11-22, 107-115;</p> <p>II. Abras, C., et.al. <i>User-Centered Design</i></p> <p>III. Video: Amy Smith's TED Talk http://www.ted.com/talks/amy_smith_shares_simple_lifesaving_design.html</p>	N/A
4	9/20/2010	Codesign Innovation Workshop	<p>Angela James, Vice Chairperson, Pinoleville Pomo Nation</p> <p>David Edmunds, Environmental Director, Pinoleville Pomo Nation</p>	<p>I. Shelby, R., <i>The Co-Design of Culturally-Inspired, Sustainable Housing with the Pinoleville Pomo Nation</i></p> <p>II. CARES, <i>Pinoleville Pomo Nation Prototype Home Final Design Report</i></p>	N/A
5	9/27/2010	Teaching Engineering	Alice Agogino & Danny Wilson	<p>I. CK-12's <i>Introduction to Engineering Design</i>, http://www.ck12.org/flexr/chapter/1915;</p> <p>II. Dubberly, <i>How do you design: A Compendium of Models</i></p>	N/A

6	10/4/2010	Assessment and Sensing	Alice Agogino & Ryan Shelby	TBA	N/A
7	10/11/2010	Wind Energy & Microhydro Background	Larissa Korach and Antonio Love, CARES Undergraduate Researchers	Section 1.4.2 Resource Assessments: Micro-Hydro Section 1.4.3 Resource Assessments: Wind	N/A
8	10/18/2010	Wind Energy Project Development	Danny Wilson	N/A	Due by end of class: Prototype of Wind Energy System
9	10/25/2010	Wind Energy Project Redesign	Danny Wilson	N/A	Due by end of class: Draft of Wind Energy Redesign
10	11/1/2010	Solar PV/Thermal Background	Cindy Bayley and Tommy Liu, CARES Undergraduate Researchers	Section 1.4.1 Resource Assessments: Solar	N/A
11	11/8/2010	Solar PV/Thermal Project Development	Danny Wilson	N/A	Due by end of class: Prototype of Solar PV/Thermal System
12	11/15/2010	Solar PV/Thermal Project Redesign	Danny Wilson	N/A	Due by end of class: Draft of Solar PV/Thermal Redesign
13	11/22/2010	Presentation and Demonstration V1 (Thanksgiving Week)	Alice Agogino, Ryan Shelby, & Danny Wilson	N/A	Due by September 29: Final demonstration and project
14	11/29/2010	Final Presentation and Demonstration	Alice Agogino, Ryan Shelby, & Danny Wilson	N/A	N/A
14.5	12/4/2010	Workshop at PPN	Field trip to the Pinoleville Pomo Nation in Ukiah, CA	N/A	N/A
15	12/6/2010	Review & Wrap Up		N/A	Due by December 13: Final Student Survey