

E-Textiles: Interactive Projects for the Jacquard Loom | fall 2009

(Please note this outline may be revised as the semester progresses.)

sept 9	sept 16	sept 23	sept 30	oct 7	oct 14	oct 21
week 1	week 2	week 3	week 4	week 5	week 6	week 7
<ul style="list-style-type: none"> • Introductions • Review: syllabus requirements school resources online resources tools materials • TC-1 DEMO • Electronics LED DEMO In MC 416 (afternoon) 	<ul style="list-style-type: none"> • Intro to Jacquard • Building weave structures • Adjusting for aspect ratio • Intro to Photoshop for Jacquard • History of Binary Systems • Artists using the TC-1 • Weaving in LEDs DEMO 	<p>LAB DAY</p> <p>Kinetics LAB students with Samples</p> <p>Weaving LAB students who need to weave their samples</p> <ul style="list-style-type: none"> • <i>Kinetics lab authorization</i> <p>Christy Matson Artist Talk MC 1307 @ 4:30</p>	<p>ELECTRONICS LAB</p> <p>Technical Critique in the morning</p> <p>Interactive Projects Profile</p> <p>Intro to Microcontrollers + Arduino</p> <p>Intro to Sensors</p>	<p>WEAVING LAB</p> <p>Intro to Double Cloth and Two Color</p> <p>Test Samples</p> <p>Translating Photograph</p> <p>Get Files ready and Troubleshoot</p>	<ul style="list-style-type: none"> • Christy out of Town • <i>Silkscreening DEMO In the morning</i> • Conductive Fiber + ThermoChromic DEMO 	<p>Technical Critique in the morning for thermoChromic and sensor samples</p> <p>Creating soft switches</p> <p>Solar Panel DEMO</p>
homework	homework	homework	homework	homework	homework	homework
<p>Join class tumblr: Etextiles.tumblr.com</p> <p>Post research: Find a project that uses conductive fabric and post with a short description + link</p> <p>Reading: "Electronic Textiles: Wearable Computers, Reactive Fashion, and Soft Computation" by Joanna Berzowska</p>	<p>Post research: Find a project that uses Jacquard or weaving based project and post with a short description + link</p> <p>Reading: "Mistaken Ancestry" by Martin and Virginia Davis</p> <p>Weaving: Students who have taken Jacquard class previously will weave their samples prior to week 3 class.</p>	<p>Post research: Post your woven LED project with a short description + photos / video</p> <p>Reading: Fabric PCBs, Electronic Sequins, and Socket Buttons: Techniques for E-textile Craft</p> <p>FINISH UP PROJECT FOR NEXT CLASS</p>	<p>Post research: Find a project that uses Interactive project and post with a short description + link</p> <p>Reading: "E-Broidery: Design and fabrication of textile-based computing"</p>	<p>Post research: Find Historical Jacquard weaving and post photo with short description + link</p>	<p>Post research: Post your thermoChromic and sensor weaving with a short description + photos / video</p> <p>Reading: "The Epidermis as Metaphor" by FoAM</p>	<p>Post research: Using conductive fabric, make a soft switch that is intended for a particular type of interaction.</p>

oct 28	nov 4	nov 11	nov 18	nov 25	dec 2	dec 16
week 8	week 9	week 10	week 11	week 12	week 13	week 15
Morning: Lab time meet in MI Technical Critique in the afternoon for sensor samples	2 color weaves meet in Sharp Solar Panel DEMO Work on a Thermochromic sample.	MEET IN MI Technical Critique on the thermochromic project. AFTERNOON: Final Project Research Proposal Presentations	Studio work time Project Troubleshooting	Studio work time Project Troubleshooting	Studio work time Project Troubleshooting	Final Project presentations & documentation due
homework	homework	homework	homework	homework	homework	homework
Post research: Find an artist project that uses light with a short description and link Reading: "The Epidermis as Metaphor" by FoAM	Post research: Post your Thermochromic project Reading: Why We Need Things, by Mihaly Csikszentmihalyi	Order any materials + parts for final Post research: Final project idea with initial sketches and list materials & techniques that you might use.	Post sketch: Document project progress I	Post sketch: Document project progress	Post sketch: Document project progress	

NO CLASS:

Dec 9 – crit week