

wearables + soft computing | fall 2009

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

sept 14	sept 21	sept 28	Oct 5	oct 12	oct 19	oct 26
week 1	week 2	week 3	week 4	week 5	week 6	week 7
<ul style="list-style-type: none"> • Introductions • Review: syllabus requirements resources tools materials • Wearables.tumblr.com • discussion • Intro to LEDs 	<p>INTIMATE INTERACTIONS</p> <ul style="list-style-type: none"> • Homework presentations + discussion <p>ELECTRONICS: part 1</p> <ul style="list-style-type: none"> • Electronics basics • Ordering parts • Breadboard prototyping 	<p>ELECTRONICS: part 2</p> <ul style="list-style-type: none"> • Electronics demos • Reading a datasheet • Electronics Resources • Soft Switch • Kinetics lab authorization (afternoon) 	<p>IDENTITY</p> <p>Reading a Datasheet MSDS 101</p> <p>Roundtable discussion of possible projects</p> <p>Intro to Sensors Intro to Lilypad</p>	<p>POLITICS: Fashion + Technology</p> <p>Sewing 101</p> <p>Must have purchased course kit for: Lilypad part 1</p>	<p>ENERGY + SUSTAINABILITY</p> <ul style="list-style-type: none"> • Soft switch presentations • Insulation of circuits • Power for wearables 	<p>Project Proposal Presentations</p> <p>Lilypad part 2</p>
homework	homework	homework	homework	homework	homework	homework
<p>Join class blog: wearables.tumblr.com</p> <p>Post research: Find a project that uses conductive fabric and post with a short description</p> <p>Reading: "Electronic Textiles: Wearable Computers, Reactive Fashion, and Soft Computation" by Joanna Berzowska</p> <hr/> <p>Janet Lin</p>	<p>Post sketch: Observe your daily interactions with objects, people and the environment. Pay special attention to intimate interactions (direct contact) and come up with 3 ideas for augmenting or deepening the level of interaction. Post them + include your observations.</p> <p>Reading: "E-Broidery: Design and fabrication of textile-based computing"</p> <hr/> <p>Lynnette Miranda</p>	<p>Post research: Find an Interactive project and post with a short description + link</p> <p>Reading: "Dress, Language and Communication" from <i>The Clothed Body</i></p> <p>(If unfamiliar with electronics please read Physical Computing, Chapters 1-3)</p> <hr/> <p>Ali S.</p>	<p>Post sketch: Make the same circuit in 2 forms: on a breadboard and on fabric. Document each step and bring all of your circuits to class.</p> <p>Reading***: "Wearables: The Flesh of Social Computing" from <i>Closer: Performance, Technologies and Phenomenology</i></p> <hr/> <p>Cass Magiera</p>	<p>Post sketch: Using conductive fabric, make a soft switch that is intended for a particular type of interaction.</p> <p>Reading: A Futureproofed Power Meter Natalie Jeremijenko</p> <hr/> <p>Daniel Dietzel</p>	<p>Presentation musts:</p> <ul style="list-style-type: none"> * Title of Project * Garment/Device * Function (Intended & Actual) * Diagrams (Electrical & Physical) * Hard Circuit * Soft Circuit * Materials & Techniques Used * Challenges & Successes * Possible Future Developments <p>Post to Tumblr</p>	<p>Readings: The Fingerprint of the Second Skin;</p> <p>Post research: Find artworks that deal with similar issues/concept as your idea for your project and post them.</p> <hr/> <p>Andre Lenox</p>

nov 2	nov 9	nov 16	nov 23	nov 30	dec 14	dec 21
week 8	week 9	week 10	week 11	week 12	week 13	week 14
SECOND SKINS + PERSONAL EXPRESSION Material choice due Intro to SMD	SOCIAL INTERACTIONS Project proposal presentations Technique choice due	ENVIRONMENT + SPACE Material reports due: Present research to class Paper circuits	Technique reports due: Present research + demo to class Studio work time One-on-one sessions	Studio work time One-on-one sessions Project Troubleshooting	Studio work time One-on-one sessions Project Troubleshooting	CRITIQUE Project presentations & documentation due
homework	homework	homework	homework	homework	homework	homework
Post research: Finalize your project and Identify possible technology + techniques to be used Post sketches or inspirations Reading: Lucy Orta Lecture <hr/> Daeun Jeong Logical Spaces for Urban Nomads. <hr/> Eun Jeong Baek	Post research: Material report See syllabus Reading: ABC of Tactical Media Post sketch: Document project progress <hr/> Jongock Kim	Order any materials + parts for final Find all datasheets for components + materials Post research: Technique report + demo See syllabus Reading: TBA <hr/> James Gydosh	Post sketch: Document project progress I Reading: Dunne + Raby Placebo Project / Design Noir <hr/> Nancy Fleischman	Post sketch: Document project progress	Post sketch: Document project progress	

NO CLASS:
Dec 7 – crit week

Reading originally set to be ***Fabric PCBs, Electronic Sequins, and Socket Buttons: Techniques for E-textile Craft