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
• Introductions • Review: syllabus requirements resources tools materials • Wearables.tumblr.com • discussion • Intro to LEDs	INTIMATE INTERACTIONS • Homework presentations + discussion ELECTRONICS: part 1 • Electronics basics • Ordering parts • Breadboard prototyping	ELECTRONICS: part 2 • Electronics demos • Reading a datasheet • Electronics Resources • Soft Switch • **Kinetics lab authorization (afternoon)**	IDENTITY Reading a Datasheet MSDS 101 Roundtable discussion of possible projects Intro to Sensors Intro to Lilypad	POLITICS: Fashion + Technology Sewing 101 Must have purchased course kit for: Lilypad part 1	ENERGY + SUSTAINABILITY • Soft switch presentations • Insulation of circuits • Power for wearables	**Project Proposal Presentations** Lilypad part 2
homework	**homework**	**homework**	**homework**	**homework**	**homework**	**homework**
Join class blog: **wearables.tumblr.com** **Post research:** Find a project that uses conductive fabric and post with a short description **Reading:** "Electronic Textiles: Wearable Computers, Reactive Fashion, and Soft Computation" by Joanna Berzowska Janet Lin	**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. **Reading:** "E-Broidery: Design and fabrication of textile-based computing" Lynnette Miranda	**Post research:** Find an Interactive project and post with a short description + link **Reading:** "Dress, Language and Communication" from *The Clothed Body* (If unfamiliar with electronics please read Physical Computing, Chapters 1-3) Ali S.	**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. **Reading***:** "Wearables: The Flesh of Social Computing" from *Closer: Performance, Technologies and Phenomenology* Cass Magiera	**Post sketch:** Using conductive fabric, make a soft switch that is intended for a particular type of interaction. **Reading:** A Futureproofed Power Meter Natalie Jeremijenko Daniel Dietzel	**Presentation musts:** * Title of Project * Garment/Device * Function (Intended & Actual) * Diagrams (Electrical & Physical) * Hard Circuit * Soft Circuit * Materials & Techniques Used * Challenges & Successes * Possible Future Developments **Post to Tumblr**	**Readings:** The Fingerprint of the Second Skin; **Post research:** Find artworks that deal with similar issues/concept as your idea for your project and post them. Andre Lenox

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 Daeun Jeong Logical Spaces for Urban Nomads. Eun Jeong Baek	**Post research:** Material report See syllabus **Reading:** ABC of Tactical Media **Post sketch:** Document project progress Jongock Kim	**Order any materials + parts for final** Find all datasheets for components + materials **Post research:** Technique report + demo See syllabus **Reading: TBA** James Gydosh	**Post sketch:** Document project progress I **Reading:** Dunne + Raby Placebo Project / Design Noir 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