

Soft Fabrication Micro Course (99-852), Spring 2017

Time: 9 am - 2:50 pm **Dates:** 3/25, 4/1, 4/8

Location: Physical Computing Lab, Hunt Library

Co-Instructors: Jen Liu (jenliu@cmu.edu) and Susan Finger (sfinger@cmu.edu)

This course aims to provide hands-on experience and knowledge on the process of working with textiles and soft fabrication techniques to be applied across different disciplines.

The fabrication skills and concepts that will be covered in this course will be taught from an interdisciplinary approach to merge practices in arts and technology. Students will learn methods of sculpting with fabric, along with merging aspects of digital fabrication and physical computing using flexible materials.

Class 1: 3/25

Discussion Topic	Demo/Lab
Hand Sewing	<ul style="list-style-type: none">• Sewing Sampler
Machine Sewing	<ul style="list-style-type: none">• Setting up machine• Machine samplers

Class 2: 4/1

Discussion Topic	Demo/Lab
Soft Circuits + Smart Textiles	<ul style="list-style-type: none">• Light up patch• Smart materials
Knitting/Crocheting/ Felting	<ul style="list-style-type: none">• Knit Demo

Class 3: 4/8

Discussion Topic	Demo/Lab
Forming shapes	<ul style="list-style-type: none">• Making pattern from existing garments
Fabric Surface Manipulation	<ul style="list-style-type: none">• Laser cut sample

Sample Book + Final Project:

Throughout the class, students will create samples that will go into a sample book (1" binder w/ plastic sheets). This will serve as a reference for future projects.

For the final project students will choose to either further investigate a skill covered or create a project proposal that incorporates techniques from the class as a way to apply these skills into their own practice. Check out the IDEaTe gallery page for past projects!

Due: **Saturday, April 15th**

IDEATE gallery documentation

- Photo of sample book + brief written reflection
- Final project:
 - **Proposal Option:** You will create a proposal for a project that utilizes techniques or concepts covered in the class. This project could be for another class or be for personal inquiry. Make sure to include:
 - Sketches
 - Write up of materials
 - Techniques and Concepts used
 - **Skill Investigation Option:** You will learn a new textile skill and create a sample to show what you have learned. This skill could be one that we discussed in class (but did not cover in a demo) or one for personal inquiry. Make sure to include:
 - Photos of your sample
 - What resources and guides used
 - What materials used
 - Possible applications