

Soft Fabrication Micro Course (99-852), Spring 2016

**Time:** 9 am - 2:50 pm **Dates:** 3/19, 3/26, 4/2

**Location:** Physical Computing Lab, Hunt Library

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: 3/19

<b>Topic</b>	<b>Discussion</b>	<b>Demo/Lab</b>
Hand Sewing	<ul style="list-style-type: none"><li>• History of hand sewing</li><li>• Hand sewing applications</li></ul>	<ul style="list-style-type: none"><li>• Sewing Sampler</li></ul>
Machine Sewing	<ul style="list-style-type: none"><li>• History of machine sewing</li><li>• Setting up sewing machine</li></ul>	<ul style="list-style-type: none"><li>• Setting up machine</li><li>• Machine samplers</li></ul>

Class 2: 3/26

<b>Topic</b>	<b>Discussion</b>	<b>Demo/Lab</b>
Soft Circuits	<ul style="list-style-type: none"><li>• Overview of materials</li><li>• Applications</li></ul>	<ul style="list-style-type: none"><li>• Light up patch</li></ul>
Knitting/Crocheting/Felting	<ul style="list-style-type: none"><li>• History and application of felting</li><li>• History and application of knitting + crochet</li></ul>	<ul style="list-style-type: none"><li>• Needle felt sample</li><li>• Crochet sample</li><li>• (Knit demo will be held during lab)</li></ul>

Class 3: 4/2

Topic	Discussion	Demo/Lab
Weaving	<ul style="list-style-type: none"><li>• History of weaving</li><li>• Applications</li></ul>	<ul style="list-style-type: none"><li>• Mini weaving</li></ul>
Fabric Surface Manipulation	<ul style="list-style-type: none"><li>• Overview of techniques</li><li>• Laser cutting with textiles<ul style="list-style-type: none"><li>○ material overview</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Pleating sample</li><li>• Ruching sample</li><li>• Piecing sample</li><li>• Laser cut sample</li></ul>

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.

Students will 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.

Due: **Saturday, April 9th**

IDEATE gallery documentation

- Photo of sample book + brief written reflection
- Final project:
  - Proposal: sketches and write up of materials, techniques and concepts
  - Skill Investigation: photos and write up of materials, history, techniques and applications