

CENTER FOR INNOVATIVE TECHNOLOGIES  
MASTER COURSE DOCUMENT

## **GIT 220 Screen Printing**

**Course Description:** A course on fundamentals of operating manual and semi-automatic screen printing presses. Topics include: file preparation, frames, mesh, emulsions, inks and additives, and printing on varied substrates and odd-shaped objects.

**Prerequisites(s):** GIT 100, GRD 120, GRD 130

**Corequisite(s):** No corequisite

Lecture Hours: 1	Lab Hours: 6	Credit Hours: 3
Lab Fee: 210	Supplemental Fee: 0	Purpose:
<input type="checkbox"/> Transfer Assurance Guide Course (TAG)	<input type="checkbox"/> Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: <input type="checkbox"/> Web	<input type="checkbox"/> Hybrid	x Classroom
Semesters Offered: x Fall	<input type="checkbox"/> Spring	<input type="checkbox"/> Summer

### **Course Primary Text: (Optional)**

Title: How to Print T-Shirts for Fun and Profit	Edition: latest
Author(s): Scott and Pat Fresener	
Publisher: ST Media Group International Inc.	

### **Supplemental Materials:**

Presentations, handouts, tour/demos of area print facility

### **Course Outcomes:**

1	To understand the process for preparing a digital file for the screen print process.
2	To understand the process of preparing a frame and fabric for a stencil.
3	To understand the relationship between artwork, emulsion and exposure.
2	To correctly produce various project on a screen printing press.
3	To understand ink types and drying methods.
5	To understand ink additives and substrate differences.
7	To understand spot, process, simulated process and index color printing.

### **Course Topics:**

Week 1	Intro to Screen Printing; Demo of process
Week 2	Screen Fabric: Types, Thread Count, Thread Diameter
Week 3	Frame Types, Fabric Tensioning: Methods, Measuring Tension
Week 4	Screen Mesh Preparation and Stencil Types (Emulsions)

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Week 5	Exposure and Exposure Testing
Week 6	Ink Types and Drying; Substrates; Usability; Additives
Week 7	Press Set Up, Registration, Off Contact, Flash Curing
Week 8	Screen Cleaning and Reclaiming; Chemicals
Week 9	Printing on Non-Textiles
Week 10	Ink Catalysts and Additives
Week 11	Cross curriculum group project
Week 12	Cross curriculum group project
Week 13	Process Color, Simulated Process Color, Index Color and Color Management
Week 14	New Print Technologies: Direct to Garment Printing, Printed Electronics
Week 15	Final, all projects due, lab clean up

**Methods of Evaluation/Assessment**

Quizzes, test, labs and projects

Course Keeper: Kathy Freed

Date Completed: 3/31/2019