

# MAKR M930: SCREEN PRINTING FOR TEXTILES I

---

**Originator**

csadnik

**College**

Moorpark College

**Discipline (CB01A)**

MAKR - MakerSpace

**Course Number (CB01B)**

M930

**Course Title (CB02)**

Screen Printing for Textiles I

**Banner/Short Title**

Screen Printing for Textiles I

**Credit Type**

Noncredit

**Start Term**

Fall 2021

**Catalog Course Description**

Introduces students to the process of screen printing on textiles. Offers practical experience for how to take a project from the design phase through the printing and curing process. Shows how to safely and effectively work in a screen printing shop.

**Taxonomy of Programs (TOP) Code (CB03)**

1030.00 - \*Graphic Art and Design

**Course Credit Status (CB04)**

N (Noncredit)

**Course Transfer Status (CB05) (select one only)**

C (Not transferable)

**Course Basic Skills Status (CB08)**

N - The Course is Not a Basic Skills Course

**SAM Priority Code (CB09)**

C - Clearly Occupational

**Course Cooperative Work Experience Education Status (CB10)**

N - Is Not Part of a Cooperative Work Experience Education Program

**Course Classification Status (CB11)**

J - Workforce Preparation Enhanced Funding

**Educational Assistance Class Instruction (Approved Special Class) (CB13)**

N - The Course is Not an Approved Special Class

**Course Prior to Transfer Level (CB21)**

Y - Not Applicable

**Course Noncredit Category (CB22)**

I - Short-Term Vocational

**Funding Agency Category (CB23)**

A - Primarily Developed Using Economic Development Funds

**Course Program Status (CB24)**

1 - Program Applicable

**General Education Status (CB25)**

Y - Not Applicable

**Support Course Status (CB26)**

N - Course is not a support course

**Field trips**

Will not be required

**Grading method**

(P) Pass/No Pass Grading

**Does this course require an instructional materials fee?**

No

**Repeatable for Credit**

Yes

**Number of times a student may enroll in this course**

Unlimited

**Units and Hours**

**Carnegie Unit Override**

No

**Total in-Class (full semester or term)**

**Total Minimum Contact/In-Class Hours (for full semester or term; not weekly)**

12

**Total Maximum Contact/In-Class Hours (for full semester or term; not weekly)**

12

**Total Student Learning**

**Total Student Learning**

**Total Minimum Student Learning Hours**

12

**Total Maximum Student Learning Hours**

12

**Student Learning Outcomes (CSLOs)**

**Upon satisfactory completion of the course, students will be able to:**

- |   |   |
|---|---|
| 1 | demonstrate the ability to clean, prepare and expose screens for printing.                              |
| 2 | demonstrate the ability to print and cure one and two screen designs on a variety of textile materials. |
| 3 | demonstrate screen printing shop safety.  |

**Course Objectives**

**Upon satisfactory completion of the course, students will be able to:**

- |   |  |
|---|--|
| 1 | demonstrate knowledge and use of screen printing vocabulary. |
| 2 | demonstrate the ability to coat screens with emulsion.       |

- 3 demonstrate screen shop safety procedures.
- 4 demonstrate the ability to correctly expose a screen with correct film positive registration.
- 5 demonstrate the ability to register a screen for printing with a variety of placements.
- 6 demonstrate the ability to print a design on a variety of textile materials.
- 7 demonstrate the ability to use variety of squeegee techniques.
- 8 troubleshoot screen exposure issues.
- 9 prepare a film positive for exposure with correct registration.
- 10 demonstrate the ability to print one and two screen designs.
- 11 operate the flash dryer.
- 12 operate the conveyor dryer.
- 13 troubleshoot print, ink, and cure issues.
- 14 demonstrate the ability to clean and prepare screens for printing.
- 15 demonstrate the ability to mix and modulate inks.
- 16 demonstrate the ability to properly washout a screen after exposure.
- 17 demonstrate the ability to properly adjust the screen printing press settings.

## Course Content

### Lecture/Course Content

1. (10%) Screen Shop Safety
  - a. flash and conveyor dryer
  - b. emulsion and ink
  - c. screen printing press safety
2. (20%) Screen Preparation
  - a. coating with emulsion
  - b. screen exposure
  - c. post exposure washout
  - d. screen cleaning
3. (70%) Printing
  - a. one and two screen registration
  - b. ink mixing and modulation
  - c. flash dryer operation
  - d. conveyor dryer operation
  - e. printing squeegee techniques
  - f. cure temperature and times
  - g. textile materials
  - h. screen press set-up and adjustment

## Methods of Evaluation

**Which of these methods will students use to demonstrate proficiency in the subject matter of this course? (Check all that apply):**

Problem solving exercises  
 Skills demonstrations  
 Written expression

**Methods of Evaluation may include, but are not limited to, the following typical classroom assessment techniques/required assignments (check as many as are deemed appropriate):**

Individual projects  
 Journals  
 Oral analysis/critiques  
 Quizzes  
 Skills demonstrations  
 Skill tests or practical examinations

## Instructional Methodology

### Specify the methods of instruction that may be employed in this course

Computer-aided presentations  
 Class activities  
 Class discussions  
 Distance Education  
 Demonstrations  
 Group discussions  
 Instructor-guided use of technology  
 Lecture  
 Small group activities

### Describe specific examples of the methods the instructor will use:

- Instructor will demonstrate skills such as coating a screen with emulsion, screen registration, mixing ink, and printing designs.
- Instructor will have students work in teams to take a project from the design phase through the printing and curing process.
- Instructor will present a screen that was not exposed correctly and have the class troubleshoot what went wrong.

## Representative Course Assignments

### Writing Assignments

1. Take notes on the steps involved with properly coating and drying a screen with emulsion.
2. Explain why it is important to print a flash layer when printing on certain textile types.

### Critical Thinking Assignments

1. Identify what went wrong when presented with screen that was not exposed correctly.
2. Identify what went wrong when presented with project that was not printed or cured correctly.

### Reading Assignments

1. Read and comprehend definitions of key terminology from the Screen Printing for Textiles packet provided by the instructor.
2. Read from equipment manual on how to correctly adjust the off contact on the screen printing press.

### Skills Demonstrations

1. Demonstrate the ability to coat screens with emulsion.
2. Demonstrate the ability to print a design with a variety of squeegee techniques.
3. Demonstrate the ability to operate the conveyor and flash dryers.

## Outside Assignments

### Articulation

#### Equivalent Courses at other CCCs

College	Course ID	Course Title	Units
No comparable courses available			

## Textbooks and Lab Manuals

### Resource Type

Other Instructional Materials

### Description

Instructor-generated Screen Printing for Textiles Packet containing worksheets, guided activities, key terms, and machine component diagrams.

### Resource Type

Websites

**Description**

Ryonet Screen Printing Press Instructional Videos, <https://www.youtube.com/user/Ryonet>.

**Library Resources****Assignments requiring library resources**

Research using the Library's print and online resources.

**Example of Assignments Requiring Library Resources**

Use the library to locate reference items for graphic design principles and elements.

**Distance Education Addendum****Definitions****Distance Education Modalities**

Hybrid (1%–50% online)

**Faculty Certifications**

Faculty assigned to teach Hybrid or Fully Online sections of this course will receive training in how to satisfy the Federal and state regulations governing regular effective/substantive contact for distance education. The training will include common elements in the district-supported learning management system (LMS), online teaching methods, regular effective/substantive contact, and best practices.

Yes

Faculty assigned to teach Hybrid or Fully Online sections of this course will meet with the EAC Alternate Media Specialist to ensure that the course content meets the required Federal and state accessibility standards for access by students with disabilities. Common areas for discussion include accessibility of PDF files, images, captioning of videos, Power Point presentations, math and scientific notation, and ensuring the use of style mark-up in Word documents.

Yes

**Regular Effective/Substantive Contact****Hybrid (1%–50% online) Modality:**

Method of Instruction	Document typical activities or assignments for each method of instruction
Asynchronous Dialog (e.g., discussion board)	Regular Asynchronous discussion boards will be used to encourage discussion among students where they can compare and contrast/ discuss /identify and analyze elements of course outcomes. Other discussion boards will also be used for Q&A, and general class discussion by students and the instructor to facilitate student learning outcomes.
Other DE (e.g., recorded lectures)	Recorded lectures, Narrated Slides, Screencasts, Instructor created content, Discussions, 3rd Party (Publisher) Tools, Websites and Blogs, Multimedia (YouTube, Films on Demand, 3CMedia, Khan Academy, etc.)
Synchronous Dialog (e.g., online chat)	Communication, Online office hours, Online group discussions.
E-mail	Email, class announcements and tools such as "Message Students Who" and "Assignment Comments" in Canvas will be used to regularly communicate with all students to clarify class content, remind of upcoming assignments, and provide immediate feedback to students on coursework to facilitate student learning outcomes. Students will be given multiple ways to email instructor through Canvas inbox and faculty provided email account through their own canvas email and school email.

**Examinations****Hybrid (1%–50% online) Modality**

Online

**Primary Minimum Qualification**

GRAPHIC ARTS

**Review and Approval Dates**

**Department Chair**

03/11/2021

**Dean**

03/11/2021

**Technical Review**

03/18/2021

**Curriculum Committee**

4/6/2021

**DTRW-I**

04/08/2021

**Curriculum Committee**

MM/DD/YYYY

**Board**

05/11/2021

**CCCCO**

MM/DD/YYYY

**DOE/accreditation approval date**

MM/DD/YYYY