



*Mr. Tate, Instructor*

*Room 419*

## *Screen Printing Syllabus*

### **Photo Direct Screen Printing**

246 Points

#### **Objectives:**

- Students will develop a understanding of the photo direct screen-printing technology as it applies to printing on paper.
- Students will demonstrate the ability to create a design from given specifications, appropriate for multi-color screen-printing.
- Students will demonstrate the ability to work safely in the lab.
- Students will successfully produce negative using the vertical process camera.
- Students will learn to create and develop positives for use with photodirect screen printing.
- Students will demonstrate the ability to plan their work in written form before using materials.
- Students will demonstrate the ability to work with others, helping and sharing equipment and materials.
- Students will develop a pride in workmanship.

#### **Time Frame:**

The general time frame for this project will be 18-20 days. The last day to turn in the completed project is the day before the last regularly scheduled classroom day for the marking period (day 41 or day 44). Lessons and demonstrations are given, as students are ready for that particular step as opposed to following a strict timeline.

#### **Specifications:**

- Art: Not to exceed 8½ x 8½" (approximately)
- Colors: One color
- Ink Type: Poster
- Stencil type: Ulano Diazo Sensitizer
- Substrate: Paper
- Grading: Students must turn in-
  - One mounted print
  - Two non-mounted prints, in progressive format
  - Rubric evaluation
  - Layout Sequence
- Evaluation: Rubric based

#### **Lesson 1**

*Objective:* Students will have an understanding for the technique of designing, prepping and printing using photo direct.

Introduce the project, give a brief rundown of how this project will progress and show the steps in a concise demo. Assign the project and discuss the specific requirements and timeline for completion. Go over the objectives for the project and emphasize that it is a requirement for the course.

*Work Time:* Students will look for appropriate images.

## **Lesson 2**

*Objective:* Students will choose the appropriate art and develop a suitable thumbnail.

Demonstrate correct saving and enlarging techniques. Refer to past examples to show what a good image would look like (line quality, line art).

*Work Time:* After for images have been found, students will begin drawing thumbnails of the images and move on to rough (must be approved upon completion).

## **Lesson 3**

*Objective:* Students will develop a comprehensive that should look identical to the final print.

Review principles for comprehensive.

*Work Time:* After completing a rough and getting it approved, students will then create a quality comprehensive that looks as though the final print should.

## **Lesson 4**

*Objective:* Students will have a better understanding of screen-printing. Students will demonstrate the ability to produce a suitable line drawing stencil for screen-printing.

Discuss options for creating a line drawing. Introduce rubilith film and show various examples of line drawing and rubilith film. Discuss successes and failures of the last screen project.

*Work Time:* Students will produce line drawing using either tech pens or Illustrator vectors.

## **Lesson 5**

*Objective:* Students will successfully produce a negative for one of their colors.

Review darkroom procedure. Emphasize lighting conditions.

*Work Time:* Students will produce a negative using the vertical process camera. The "Using the Vertical Process Camera" and "Measuring and Cutting Film" handouts can be used as an aid.

## **Lesson 6**

*Objective:* Students will successfully produce a positive from the previously made negative for one of their colors.

Demonstrate how the make a positive using the platemaker and explain developing techniques.

*Work Time:* Students will produce a negative using the vertical process camera. The "Making a Contact Reversal" handout can be used as an aid.

## Lesson 7

*Objective:* Students will cut rubilith for the other color(s) of their screen print.

Review trapping; demonstrate how to cut rubilith with emphasis on trapping. Show that errors can be corrected with red litho tape.

*Work Time:* Students will effectively cut rubilith to register with the positive they have made.

## Lesson 8

*Objective:* Students will properly coat their screens with Diazo Sensitizer.

Re-demonstrate the proper procedure for degreasing a screen. Demonstrate how to coat a screen using the shuttle and Diazo Sensitizer.

*Work Time:* Students will degrease their screens and then coat them with light sensitive Diazo Sensitizer. Students can refer to the photo emulsion coating handout.

## Lesson 10

*Objective:* Students will expose and wash out their stencils.

Demonstrate setting up the mercury exposure system. Emphasize that the positive and rubilith must be wrong reading and that the emulsion must be dry. After exposure has finished, show students how to washout the emulsion with a cone spray, periodically checking for pin holes.

*Work Time:* Students will expose and wash out their screens using the mercury exposure system, their rubilith cuts, and their positive.

## Lesson 11

*Objective:* Students will learn how to block out the not image area of the screen.

Demonstrate proper block out procedures.

*Work Time:* Since the stencil has been adhered to the screen, students will now use scrap paper and masking tape to block out their non-image area.

## Lesson 12

*Objective:* Students will properly print.

Demonstrate the procedure for taping in the image area and mounting the screen in the printing clamps. Demonstrate procedure for printing. Students should make 15-20 prints. Demonstrate the clean-up procedures for removing ink and proper use and disposal of chemicals.

*Work Time:* Once the screen has been blocked out thoroughly, students will print at least 15 prints. Three must be submitted.

## **Lesson 13**

*Objective:* Students will recover the screen fabric for future use.

Demonstrate the proper procedure for removing the stencil and ink residue from the screen fabric (Screen Recovery).

*Work Time:* After all printing has been completed; students will recover the screen as per the demonstration. Screens must be examined and approved by instructor before recovery is complete.

## **Lesson 14**

*Objective:* Students will properly trim and mount one print to turn in for evaluation.

Demonstrate trimming and mounting procedure. Students must turn in one mounted print for grading. Evaluations are made following the rubric.

*Work Time:* Students will pick the best print and make a mat for it. This process is described in the accompanying handout. After the mat has been cut the print will be trimmed to fit and attached.