

PALOMAR COLLEGE
COURSE OUTLINE OF RECORD FOR
DEGREE CREDIT COURSE

X Transfer Course X A.A. Degree applicable course
(check all that apply)

COURSE NUMBER AND TITLE: GC 170/RGC 170 Screen Printing

UNIT VALUE: 3.0 units

MINIMUM NUMBER OF SEMESTER HOURS: 96

BASIC SKILLS REQUIREMENTS: Appropriate language and computational skills.

ENTRANCE REQUIREMENTS

PREREQUISITE: None

COREQUISITE: None

RECOMMENDED PREPARATION: None

SCOPE OF COURSE:

Screen printing theory and application of layout and image preparation, computer applications, stencil methods, process camera and basic screen printing techniques. Practical application is stressed.

SPECIFIC COURSE OBJECTIVES:

The successful student will be able to:

1. evaluate and select compatible systems for textile applications.
2. apply principles of multicolor art for screen printing.
3. apply principles of printing on three types of fabric.
4. apply principles of color matching system.
5. identify and use ink modifiers.
6. apply principles of printing on dark, light, porous and non-porous fabrics.
7. apply principles of three curing procedures.
8. identify garments, quality and fabric components.
9. analyze and solve six troubleshooting methods.
10. apply principles of three quality control devices.
11. identify and apply universal employment skills.

CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:

- I. Safety Practices
 - A. Laboratory
 - B. Material safety data sheets
- II. Screen Materials
 - A. Fabric
 - 1. mesh counts/types
 - 2. color
 - 3. tension
 - B. Frames
 - 1. wood
 - 2. metal
 - 3. roller
 - C. Squeegee
 - 1. shape
 - 2. durometer
 - D. Frame stretching
 - 1. glue
 - 2. pneumatics
- III. Stencil systems
 - A. Photographic
 - 1. indirect
 - 2. direct
 - 3. capillary
 - 4. polymer
 - B. Resolution
 - 1. speed
 - 2. light sources
- IV. Layout and Image Preparation
 - A. Creating output ready
 - B. Control devices
- V. Mesh Preparation
 - A. Degreasing
 - B. Block out
- VI. Computer Applications
 - A. Type generation
 - B. Image generation
 - C. Scanning
- VII. Inks
 - A. Properties of inks
 - B. Treatment of inks
 - C. Modification of inks
 - D. Types of inks
 - E. Drying of inks
- VIII. Screen Printing
 - A. Types of equipment
 - B. Make ready
 - C. Inks and substrates
 - D. Control ink deposit
- IX. Screen Reclaiming
 - A. Solvent stencils

- B. Photo stencils
- C. Ink
- D. Haze removal
- X. History of Screen Printing
- XI. Universal Employment Skills
 - A. Acquires, evaluates, organizes and maintains information
 - B. Uses computers to present and communicate information
 - C. Selects and applies the appropriate computer technology to perform specific tasks
 - D. Understands and communicates the technical aspect and terminology of the graphic communications industry.

REQUIRED READING:

None

SUGGESTED READING:

Screen Print Magazine
Impressions Magazine

REQUIRED WRITING:

One page written technical report on Stencil Systems or related technology on screen printing.

OUTSIDE ASSIGNMENTS:

Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.

Studying lecture and lab notes, solving layout problems, and researching and writing technical report.

INSTRUCTIONAL METHODOLOGY:

Check all that apply:

- lecture
- laboratory
- lecture-laboratory combination
- directed study

DISTANCE LEARNING:

This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.

Yes No

Note: ROP courses may not be offered via Distance Learning.

If yes, check all that apply:

- Television Course (Video one-way, e.g. ITV, video cassette, etc.)
- Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
- Two-Way Video Conferencing (Two-way interactive video and audio)
- One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
- Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

GRADING POLICY AND STANDARDS (include methods of determining whether the stated objectives have been met by students):

Assignments/Project	60%
Technical Report	10%
Test	20%
Class/lab Participation	10%

IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?

Yes No Number of times course may be taken for credit: 4

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable:

58161 (c) (2) (A)

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SIGNATURES ON FILE