

Approval Dates:  
 Division \_\_\_\_\_  
 CRC \_\_\_\_\_  
 Board of Trustees \_\_\_\_\_

**MISSION COLLEGE**  
**ASSOCIATE DEGREE CREDIT COURSE OUTLINE**

**SECTION I Course Data**

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COURSE NUMBER	COURSE TITLE	UNITS
GRART 075	Graphic Arts Offset Press	3.0

LECTURE HOURS (PER WEEK)	LAB HOURS (PER WEEK)
2.0	3.0

CREDIT / NO CREDIT OPTION  YES  NO

MAY THIS COURSE BE REPEATED?  YES  NO; How many times? 1

RECOMMENDED FOR CREDIT BY EXAMINATION?  YES  NO

**CATALOG COURSE DESCRIPTION**

Operation and maintenance of offset presses. Covers designs and nomenclature of offset presses and duplicators, press setup procedure, controlling registration, controlling ink and water balance, Ph balance in fountain solutions, running a variety of uncoated and coated stocks, the use of dry powder spray, ink mixing and matching, platemaking and maintenance and care of the offset press. Students will run single and double sided work using different imposition methods; both single-color and multi-color, tight register printing are covered in lab assignments. Maintenance procedures for each press are carried out by class members.

**DESCRIPTION FOR THE SCHEDULE OF CLASSES**

Introduction to offset printing, maintenance and operation of offset presses and bindery equipment.

**ACCEPTABLE FOR TRANSFER CREDIT:**

California State University; Yes  No

University of California; Yes  No  (Check Yes to apply for UC transferability.)

**PREREQUISITE**

None

**COREQUISITE**

## **SECTION II Course Content**

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### **A. COURSE CONTENT AND SCOPE**

#### **1. STUDENT COURSE OBJECTIVES**

Upon completion of this course, a student will be able to:

- a. Setup the offset press to register various sizes and weights of paper, both coated and uncoated.
- b. Set the inking and dampening systems to deliver the correct balance of each to the plate.
- c. Demonstrate safe and productive working habits to operate machinery in a clean and efficient manner
- d. Accurately position printed images on the sheet according to job specs and maintain register throughout the run length.
- e. Measure and hold proper ink density throughout the press run according to job specs.
- f. Make pressure adjustments on the inking and dampening rollers.
- g. Adjust cylinder packing and pressure.
- h. Perform routine maintenance on the offset press to keep it in good working order.
- i. Run a variety of paper stocks of various weight, both coated and uncoated.
- j. Understand the stripping and proofing processes as they relate to offset presswork.
- k. Be able to burn plates for a job form a set of flats and job specs.
- l. Understand press related problems and how to overcome them.

#### **2. OUTLINE OF TOPICS TO BE ADDRESSED IN COURSE BY INSTRUCTOR**

- a. Understanding the offset printing process
- b. How to register sheets through the press for single and multi-color printing
- c. Understanding various paper stocks and how they effect registration in the printed result
- d. Mixing ink to job specifications
- e. Measuring ink density in multi-color printing
- f. Running single-sided and two-sided job
- g. Understanding printing imposition methods and how to run them on the press
- h. Setting up and controlling ink and dampening systems
- i. Maintenance and upkeep of the offset press
- j. Understanding the ink making process and how it affects operation of the press
- k. Wet and dry trapping techniques
- l. Controlling quality throughout the printed job
- m. Controlling ink trap throughout press run
- n. Safe and productive working habits when running the offset press
- o. Plate burning to job specs
- p. Ink mixing and matching to job specs
- q. Computerization in offset presses in the modern industry
- r. Careers in offset presswork

**B. TITLE V REQUIREMENTS**

**1. APPROPRIATE READINGS AND TEXTBOOKS**

**a. TEXTBOOKS**

Adams, Faux and Rieber, Printing Technology.

**b. READINGS/OTHER**

assigned readings will be given from the text. In addition, other excerpts from periodical article may be assigned as is appropriate. This course includes 6 hours of outside homework per week.

**2. WRITING ASSIGNMENTS, DEMONSTRATION OF ABILITY TO USE SYMBOL SYSTEMS OR DEMONSTRATION OF ABILITY TO APPLY SKILLS LEARNED IN THE COURSE.**

This is a skills course and writing is not used to demonstrate critical thinking.

**3. APPROPRIATE OUTSIDE ASSIGNMENTS**

Homework reading will be assigned to students on a regular basis. A majority of reading will come from the text and periodicals that cover the trends in technology in the field of Graphic Arts press.

**4. APPROPRIATE ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING.**

Students are given outside assignments to solve a variety of problems that arise in this field on an everyday basis. Students will demonstrate critical thinking y analyzing data and making decisions that will make the difference between acceptable and unacceptable results.

**5. CULTURAL PLURALISM; Yes  X  Not applicable \_\_\_\_\_**

Cultural pluralism is encouraged through group and paired learning activities with students from various cultures.

**6. METHOD OF INSTRUCTION;**

- a. Lecture
- b. Demonstrations
- c. Slide and video materials
- d. Guest speakers
- e. Outside reading and projects
- f. Magazine articles

**7. STUDENT EVALUATION**

- a. Grades received on lab assignments
- b. Quizzes
- c. Mid-term exam
- d. Final exam
- e. Completion of homework assignments
- f. Class participation

**8. CLASSIFICATION OF COURSE FOR MAJOR AND/OR GENERAL EDUCATION**

\_\_\_\_\_ No, this course is not for a major

\_\_\_\_\_ No, this course is not General Education

\_\_\_\_\_ Yes, I wish to use the course in a specific major and will fill out the supplemental **Form M**.

\_\_\_\_\_ Yes, I wish to apply for GE And will fill out the supplemental **Form G**.

**SECTION III Course Support**

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**NEEDS ASSESSMENT**

**DISCIPLINE AREA**

Graphic Arts

**RESOURCES NEEDED OR ANTICIPATED**

**PLAN FOR EVALUATION OF COURSE**

PREPARED BY: Jim DeLongchamp DATE 1990

CURRICULUM COMMITTEE DIVISION REPRESENTATIVE \_\_\_\_\_ DATE \_\_\_\_\_

**THIS OUTLINE MUST BE SUBMITTED WITH AN APPROPRIATE SIGNATURE FORM.**

6/20/97