

MAKR M923: VINYL CUTTING AND PRINTING PRODUCTION SHOP

Originator

csadnik

College

Moorpark College

Discipline (CB01A)

MAKR - MakerSpace

Course Number (CB01B)

M923

Course Title (CB02)

Vinyl Cutting and Printing Production Shop

Banner/Short Title

Vnyl Cttnng and Prntng Prod Shp

Credit Type

Noncredit

Start Term

Spring 2022

Catalog Course Description

Offers practical experience in vinyl cutting and printing. Covers workflows, operation of equipment, and the production of projects within a team environment.

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)

20

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

20

Total Student Learning

Total Student Learning

Total Minimum Student Learning Hours

20

Total Maximum Student Learning Hours

20

Prerequisites

MAKR M920

Entrance Skills

Entrance Skills

MAKR M920

Prerequisite Course Objectives

MAKR M920-perform correct loading and unloading procedures for media in the vinyl printer and vinyl cutter

MAKR M920-adjust the settings on the vinyl cutter including pen force, blade angle, media type/size, pinch rollers, manually move the cutting carriage

MAKR M920-apply laminate to vinyl prints
 MAKR M920-operate the vinyl printer to computer interface software to include but not limited to the following: place files, set-up registration mark, set media type, adjust files settings
 MAKR M920-apply swatches in design software to code cut contour spot colors
 MAKR M920-use image trace in design software to create cut contour lines
 MAKR M920-arrange and tile vinyl print and cut documents
 MAKR M920-identify vinyl printer components and define what each component does
 MAKR M920-operate the vinyl cutter-to-printer interface including the following: mirror, rotate, duplicate, and tile designs
 MAKR M920-perform basic maintenance on the vinyl printer to include manual cleaning, change ink cartridges, change and replace blades
 MAKR M920-perform maintenance on the vinyl cutter to include change and replace blades
 MAKR M920-operate the heat press to include adjusting the pressure, setting press temperature and time, and changing the platens
 MAKR M920-perform post vinyl cut tasks including weeding designs, applying transfer, and applying decals to surfaces
 MAKR M920-demonstrate proper heat press safety protocols

Requisite Justification

Requisite Type

Prerequisite

Requisite

MAKR M920

Requisite Description

Course in a sequence

Level of Scrutiny/Justification

Part of a sequence of courses in a certificate of completion or a certificate of competency (noncredit only)

Student Learning Outcomes (CSLOs)

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

- | | |
|---|---|
| 1 | demonstrate the ability to operate the vinyl cutter, vinyl printer, and heat press. |
| 2 | demonstrate communication skills within a team environment. |
| 3 | demonstrate the ability to assess and troubleshoot production problems. |
| 4 | demonstrate workflow skills. |

Course Objectives

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

- | | |
|---|--|
| 1 | operate the vinyl cutter. |
| 2 | operate the vinyl printer. |
| 3 | operate the heat press. |
| 4 | demonstrate communication skills within a team environment. |
| 5 | demonstrate the ability to identify and asses production problems. |
| 6 | demonstrate the ability to troubleshoot production problems. |
| 7 | create and execute workflows for vinyl production jobs. |

Course Content

Lecture/Course Content

1. (20%) Heat Press
 - a. safety
 - b. job preparation
 - c. job production
 - d. maintenance
 - e. workflows

2. (35%) Vinyl Printer
 - a. job preparation
 - b. job production
 - c. maintenance
 - d. workflows
3. (35%) Vinyl Cutter
 - a. job preparation
 - b. job production
 - c. maintenance
 - d. workflows
4. (10%) Production Team
 - a. communication
 - b. team work

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):

Group projects
Journals
Oral analysis/critiques
Quizzes
Skills demonstrations

Instructional Methodology

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

Class activities
Demonstrations
Group discussions
Instructor-guided use of technology
Large group activities
Problem-solving examples
Small group activities

Describe specific examples of the methods the instructor will use:

- Instructor will guide group discussions in which students will work as a team to develop workflows for production jobs.
- Instructor will assist students in trouble shooting problems with production.
- Instructor will demonstrate how to create a workflow for a production job.

Representative Course Assignments

Writing Assignments

- Create written workflows for production print jobs.
- Complete peer and team evaluations.

Critical Thinking Assignments

- Identify what went wrong when a print job fails.
- Determine the most effective way to set-up a print file to maximize the amount of vinyl used in a job.

Reading Assignments

- Read from vinyl printer user manual about how to safely perform a manual cleaning.
- Read from heat press user manual about how to change the pressure settings on the press.

Skills Demonstrations

- Demonstrate the ability to perform maintenance on the vinyl printer and cutter.
- Demonstrate the ability to communicate workflow issues within a team environment.

Outside Assignments**Textbooks and Lab Manuals****Resource Type**

Manual

Description

Roland GS-24 Users Manual (Vinyl Cutter). Roland DG Corporation, 2015, https://files.rolanddga.com/Files/GS-24_UsersManual/Responsive_HTML5/index.htm#t=GS-24_index.html. Accessed 28 April, 2021.

Resource Type

Manual

Description

Roland BN-20 Users Manual (Vinyl Printer). Roland DG Corporation, 2019, <https://webmanual.rolanddg.com/BN-20>. Accessed 28 April 2021.

Resource Type

Manual

Description

Stahls Hotronix Auto Clam Operators Manual (Heat Press). Stahls Hotronix, 2018, <https://assets.stahls.com/stahls/content/pdf/HeatPressManuals/Hotronix-Clam-Hover-Press-Operators-Manual.pdf>. Accessed 28 April 2021.

Resource Type

Other Instructional Materials

Description

Instructor-generated Vinyl Printing and Cutting Packet containing worksheets, guided activities, key terms, and machine component diagrams.

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.

Primary Minimum Qualification

GRAPHIC ARTS

Review and Approval Dates**Department Chair**

04/14/2021

Dean

04/14/2021

Technical Review

04/29/2021

Curriculum Committee

5/4/2021

DTRW-I

05/13/2021

Curriculum Committee

MM/DD/YYYY

Board

06/15/2021

CCCCO

MM/DD/YYYY

DOE/accreditation approval date

MM/DD/YYYY