

# MAKR M920: VINYL CUTTING AND PRINTING I

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**Originator**

csadnik

**College**

Moorpark College

**Discipline (CB01A)**

MAKR - MakerSpace

**Course Number (CB01B)**

M920

**Course Title (CB02)**

Vinyl Cutting and Printing I

**Banner/Short Title**

Vinyl Cutting and Printing I

**Credit Type**

Noncredit

**Start Term**

Fall 2021

**Catalog Course Description**

Introduces students to the vinyl cutter, vinyl printer and heat press. Offers practical experience for how to prepare designs for the vinyl cutter and vinyl printer, and how to safely and effectively use these MakerSpace tools.

**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**

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)**

8

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

8

**Total Student Learning**

**Total Student Learning**

**Total Minimum Student Learning Hours**

8

**Total Maximum Student Learning Hours**

8

**Prerequisites**

MAKR M910

**Entrance Skills**

**Entrance Skills**

MAKR M910

**Prerequisite Course Objectives**

MAKR M910-use the type tool to create text and demonstrate the ability to set font family, change the font style and size, and covert type to outlines

MAKR M910-use image trace to covert raster images to vector artwork and manipulating image trace controls to get a variety of results

MAKR M910-demonstrate ability to save a file in a variety of formats and export assets  
 MAKR M910-create a document and adjust the size and number of artboards within a document  
 MAKR M910-adjust document color mode and apply modes as appropriate  
 MAKR M910-demonstrate ability to use the copy and paste functions  
 MAKR M910-create, manipulate, and adjust layers in a document  
 MAKR M910-recognize what the embed image option does and apply its use as appropriate  
 MAKR M910-differentiate between the direct selection and the selection tool and apply their use as appropriate  
 MAKR M910-demonstrate the ability to use the shape tool to create and manipulate rectangles, ellipses, polygons, and stars  
 MAKR M910-demonstrate the ability to use the pen tool to create custom shapes and manipulate anchor points  
 MAKR M910-demonstrate the ability to add and change the color of strokes and fills on both type and shapes  
 MAKR M910-demonstrate the ability to use the shape builder tool and pathfinder tool to create custom shapes  
 MAKR M910-demonstrate the ability to scale, move and rotate shapes and type

## Requisite Justification

### Requisite Type

Prerequisite

### Requisite

MAKR M910

### Requisite Description

Course in a sequence

### Level of Scrutiny/Justification

Content review

## Student Learning Outcomes (CSLOs)

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

- |   |  |
|---|--|
| 1 | use the vinyl printer/cutter to computer interface |
| 2 | operate the vinyl printer                          |
| 3 | operate the vinyl cutter                           |
| 4 | operate the heat press                             |

## Course Objectives

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

- |    |  |
|----|--|
| 1  | perform correct loading and unloading procedures for media in the vinyl printer and vinyl cutter   |
| 2  | adjust the settings on the vinyl cutter including pen force, blade angle, media type/size, pinch rollers, manually move the cutting carriage                                       |
| 3  | apply laminate to vinyl prints   |
| 4  | 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 |
| 5  | apply swatches in design software to code cut contour spot colors  |
| 6  | use image trace in design software to create cut contour lines   |
| 7  | arrange and tile vinyl print and cut documents   |
| 8  | identify vinyl printer components and define what each component does  |
| 9  | operate the vinyl cutter-to-printer interface including the following: mirror, rotate, duplicate, and tile designs   |
| 10 | perform basic maintenance on the vinyl printer to include manual cleaning, change ink cartridges, change and replace blades  |
| 11 | perform maintenance on the vinyl cutter to include change and replace blades   |
| 12 | operate the heat press to include adjusting the pressure, setting press temperature and time, and changing the platens   |

- |    |  |
|----|--|
| 13 | perform post vinyl cut tasks including weeding designs, applying transfer, and applying decals to surfaces |
| 14 | demonstrate proper heat press safety protocols   |

## Course Content

### Lecture/Course Content

1. (15%) Heat Press
  - a. safety
  - b. temperature, pressure, and duration setting
  - c. change platens
  - d. operation
2. (30%) Vinyl Printer/Cutter to Computer Interface
  - a. loading files
  - b. settings
  - c. registration marks
3. (15%) File Preparation
  - a. creating cut contours
  - b. coding cut contours
  - c. exporting file in correct formats
4. (20%) Vinyl Printer
  - a. loading/unloading media
  - b. maintenance
  - c. safety
  - d. applying laminate
5. (20%) Vinyl Cutter
  - a. loading/unloading media
  - b. maintenance
  - c. weeding design
  - d. applying transfer tape
  - e. applying decals to surfaces
  - f. safety

## 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

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  
Quizzes  
Skills demonstrations

## 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

Describe specific examples of the methods the instructor will use:

- The instructor will use a projector to demonstrate how to use vinyl printer/cutter-to-computer interface to set-up files.
- Instructor will demonstrate skills such as loading/unloading media, weeding a vinyl cut design, applying laminate to vinyl prints.

- Instructor will explain the difference between vinyl cut decal and vinyl prints and why one method is beneficial over the other depending on the circumstance/application.

## Representative Course Assignments

### Writing Assignments

1. Take notes on how to use the steps involved with using operating the vinyl cutter
2. Explain the difference between vinyl cut decals and printed stickers and why one would be used over the other

### Critical Thinking Assignments

1. Correctly identify what is incorrect when presented with a file that was not set-up correctly.
2. Correctly identify what is wrong when presented with vinyl that was incorrectly loaded in a vinyl printer and vinyl cutter

### Reading Assignments

1. Read and comprehend definitions of key terminology from the Vinyl Cutting and Printing packet provided by the instructor.
2. Read from equipment manual how to safely perform a manual cleaning on a vinyl cutter

### Skills Demonstrations

1. Demonstrate the ability to complete a vinyl print job from the design phase through lamination and post lamination cut.
2. Perform a manual clean on the vinyl printer.
3. Demonstrate the ability to complete a heat press job from setting up the heat press through peeling the transfer tape.
4. Demonstrate the ability to complete a vinyl cut job from the design phase through applying the decal to a surface.

## Outside Assignments

### Textbooks and Lab Manuals

#### 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.

## 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
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.)
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.
Synchronous Dialog (e.g., online chat) E-mail	Communication, Online office hours, Online group discussions. 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

11/17/2020

### Dean

11/20/2020

### Technical Review

12/03/2020

### Curriculum Committee

01/19/2021

### DTRW-I

02/11/2021

### Curriculum Committee

MM/DD/YYYY

### Board

03/09/2021

**CCCCO**

MM/DD/YYYY

**DOE/accreditation approval date**

MM/DD/YYYY