

MAKERSPACE

Program Purpose: Students who complete MakerSpace courses will develop problem solving skills, apply design thinking principles, and gain competencies on a variety of digital fabrication equipment.

The MakerSpace at Moorpark College is a place for students and faculty to explore new technologies, work on personal and class projects, and gather with others who enjoy making. Like the library; any student can use the MakerSpace regardless of major or class enrollment. Our MakerSpace is staffed with student specialists who can assist on projects and train students on equipment. We have a variety of tools ranging from industry-level software, CNC machines, and 3D printers to traditional woodworking tools, sewing machines, and crafting supplies. All are welcome in the MakerSpace.

MAKR M103 Introduction to Digital Fabrication 3 Units

Formerly: GR M01

In-Class Hours: 35 lecture, 52.5 laboratory

Provides foundation-level understanding of the elements and principles of three-dimensional design in both theory and practical applications using a variety of materials. Focuses on drawing, modeling and building three-dimensional physical forms from digital designs. Explores modeling simple and complex objects, surfaces and spaces and develops them physically using a laser cutter, 3D printing, and computer numerical control (CNC) milling technology.

Grade Modes: Letter Graded, Student Option- Letter/Credit, Pass/No Pass Grading

Degree Applicability: Applies to Associate Degree

AA/AS GE: None

Transfer Credit: CSU

UC Credit Limitations: None

CSU GE-Breadth: None

IGETC: None

MAKR M901 Introduction to MakerSpace and MakerSpace Safety 0 Units

Introduces students to the MakerSpace and general MakerSpace safety protocols. Provides a context for the role that MakerSpace plays in the design process and culture. Prepares students to use the campus MakerSpace in a safe and effective manner. Does NOT Apply to Associate Degree.

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

MAKR M903 Introduction to Design Thinking 0 Units

Introduces students to the design thinking process. Includes problem solving methodology, evaluation, and critical thinking that allows students to arrive at solutions that challenge preconceived ideas. Facilitates a maker focused, hands-on approach to understanding and applying the design thinking process.

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

MAKR M910 Adobe Illustrator for the MakerSpace I 0 Units

Introduces students to Adobe Illustrator in relation to entry-level design and MakerSpace equipment. Teaches how to create Illustrator documents for laser cutting, vinyl cutting, vinyl printing, and screen printing.

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

MAKR M920 Vinyl Cutting and Printing I 0 Units

Prerequisites: MAKR M910

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.

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

MAKR M923 Vinyl Cutting and Printing Production Shop 0 Units

Prerequisites: MAKR M920

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

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

MAKR M925 Laser Cutting and Engraving I 0 Units

Prerequisites: MAKR 910

Introduces students to laser cutting and engraving. Offers practical experience in preparing designs for laser cutting and engraving. Instructs the proper, safe, and effective operation of this MakerSpace tool.

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

MAKR M928 Laser Cutting and Engraving Production Shop 0 Units

Prerequisites: MAKR M925

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

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

MAKR M930 Screen Printing for Textiles I 0 Units

Introduces students to the process of screen printing on textiles. Offers practical experience for how to take a project from the design phase through the printing and curing process. Shows how to safely and effectively work in a screen printing shop.

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

MAKR M935 Screen Printing for Textiles Production Shop 0 Units

Prerequisites: MAKR M930

Offers practical experience in screen printing. Covers workflows, operation of screen printing presses, and the production of projects within a team environment.

Grade Modes: Pass/No Pass Grading

Repeatable for Credit: Unlimited.

Degree Applicability: Noncredit course; not applicable for degree credit

AA/AS GE: None

Transfer Credit: None

- Laser Cutting and Engraving Level I, Certificate of Completion (<http://catalog.vcccd.edu/moorpark/programs-courses/makerspace/laser-cutting-engraving-level-i-coc/>)
- Screen Printing for Textiles Level I, Certificate of Completion (<http://catalog.vcccd.edu/moorpark/programs-courses/makerspace/screen-printing-textiles-level-i-coc/>)
- Vinyl Cutting and Printing Level I, Certificate of Completion (<http://catalog.vcccd.edu/moorpark/programs-courses/makerspace/vinyl-cutting-printing-level-i-coc/>)

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