

LASER CUTTING AND ENGRAVING LEVEL I, CERTIFICATE OF COMPLETION

This noncredit Certificate of Completion in Laser Cutting and Engraving Level I is designed to help students develop a foundation in MakerSpace and design thinking with a specialization in laser cutting and engraving.

Students who complete this program of study will have gained advanced problem-solving skills, knowledge of industry standard computer programs, leadership and team building opportunities, and hands-on experience working in a MakerSpace with advanced technologies.

There are no prerequisites or enrollment limitations.

To earn a Certificate of Completion in Laser Cutting and Engraving Level I students must complete the following:

| Course ID | Title | Units/ Hours |
|---|--|-----------------|
| Complete the following five courses: | | |
| MAKR M901 | Introduction to MakerSpace and MakerSpace Safety | 4 |
| MAKR M903 | Introduction to Design Thinking | 8 |
| MAKR M910 | Adobe Illustrator for the MakerSpace I | 8 |
| MAKR M925 | Laser Cutting and Engraving I | 8 |
| MAKR M928 | Laser Cutting and Engraving Production Shop | 20 |
| Total Hours | | 48 |

| Year 1 | | Units/Hours |
|---------------|--|-------------|
| Fall Semester | | |
| MAKR M901 | Introduction to MakerSpace and MakerSpace Safety | 4 |
| MAKR M903 | Introduction to Design Thinking | 8 |
| MAKR M910 | Adobe Illustrator for the MakerSpace I | 8 |
| MAKR M925 | Laser Cutting and Engraving I | 8 |
| MAKR M928 | Laser Cutting and Engraving Production Shop | 20 |
| | Units/Hours | 48 |
| | Total Units/Hours | 48 |

Upon successful completion of this program, students will be able to:

- create and apply design thinking solutions through the use of advanced laser cutting and engraving equipment and technology
- demonstrate proficiency in using industry standard software and equipment to produce laser engraved and cut products
- demonstrate the ability to collaborate and communicate within a team environment