

# 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
<b>Complete the following five courses:</b>		
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
<b>Total Hours</b>		<b>48</b>

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
	<b>Units/Hours</b>	<b>48</b>
	<b>Total Units/Hours</b>	<b>48</b>

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