

DIGITAL FABRICATION

ART 4753

SU_24

HOWELL 110

MONDAY - FRIDAY

1:00 - 4:50

[COURSE WEBSITE](#)

F2F

INSTRUCTOR(S)

AUBREY POHL

(HE/HIM)

APOHL@CAAD.MSSTATE.EDU

CAROLINE HATFIELD

(SHE HER)

CHATFIELD@CAAD.MSSTATE.EDU

COURSE DESCRIPTION

This course will provide introductory instruction in digital fabrication as it relates to object design and sculpture. We will cover 3D Modeling in Fusion 360, Illustrator, laser cutting, 3D printing, and fabricating metal forms from CNC plasma cut components. Lectures will cover contemporary art and design utilizing digital fabrication. Assignments will prioritize creative/conceptual intent alongside technical development. Student choice-based learning will anticipate audience as either consumer or viewer to engage in graphic design, product design, and contemporary art making.

COURSE STRUCTURE

DEMOS:

- LASER CUTTER DEMO
- CNC ROUTER DEMO
- PLASMA CUTTER DEMO
- 3D PRINTER DEMO

COURSE OBJECTIVES

Develop beginner level digital fabrication skills – including 3D modeling for various physical outputs.

Synthesize the tools of digital fabrication with a contemporary sculptural/creative practice.

Build upon existing digital design capabilities and fabrication skills to create art objects using CNC plasma cutting, 3D printing, and laser cutting.

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REQUIREMENTS

- Laptop computer
- Fusion (available via [Msstate ITS](#))
- Adobe Creative Cloud (available vis [Msstate ITS](#))
Adobe Illustrator, Photoshop, & InDesign
- Notebook/Sketchbook
- Sketchbooking materials
- Other material as needed

*** by staying in this course you agree to the rules and guidelines in this syllabus. Please refer to the following link to observe the important and mandatory MSU academic policies that fall under this agreement:

<https://www.provost.msstate.edu/faculty-student-resources/university-syllabus> ***

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TIMELINE

WEEK 01 / 07.08-07.12 (DEMO WEEK)

07.08 COURSE INTRODUCTION(S)

07.08 DEMO PROJECT 01

07.09 DEMO PROJECT 02

07.10 DEMO PROJECT 03

07.11 DEMO PROJECT 04

07.12 DEMO PROJECT WRAP UP

WEEK 02 / 07.15-07.19

WORKING DAY(S)

MAIN PROJECT INTRODUCTION

MAIN PROJECT DESIGN REVIEW PRESENTATIONS

WEEK 03 / 07.22-07.26

WORKING DAY(S)

MIDPOINT CLASS CHECK-IN

PROGRESS CRITIQUE

WEEK 04 / 07.29-08.02

WORKING DAY(S)

PROGRESS CRITIQUE

WEEK 04 / 08.05-08.06

08.05 FINAL WORKING DAY

08.06 FINAL CRITIQUE / ONE NIGHT ONLY?

END OF COURSE