

ARCH 509 Advanced Robotic Fabrication

M 8:30-11:30 Winter 2021

FABLab, MS DMT space

Office Hours: M 1-3

Wes Mcgee, Rm 1248a

wesmcee@umich.edu

The Advanced Robotic Fabrication seminar provides an opportunity for students to explore cutting edge fabrication technologies in a seminar/supervised lab format. Projects will introduce core software and hardware tools used in the FABLab as well as new techniques that are constantly evolving through on-going research trajectories.

Several architectural fabrication research trajectories have been developed within the Taubman College FABLab, and this course will continue that research as well as help students build an understanding of the workflows and techniques involved. In addition, the goal of working within a “lab” context is to encourage knowledge transfer between the various research trajectories, with the expectation that students will share technical expertise in a collaborative manner throughout the program.

The class will consist primarily of tutorials, individual or group meetings/desk crits, demonstrations/exercises on various fabrication techniques, and periodic student presentations. These presentations are intended to promote discussion around the broader topic of digital technologies, as well to provide a metric for the overall progress of the research

The expected outcome of the course will be an in-depth understanding of specific fabrication workflows, as well as physical prototypes that support the research. For the Winter 2021 semester this course is paired with Prof. Tsz Yan Ng’s graduate thesis section.

