ARCH 702 Robotic Engagement Digital Material Processes

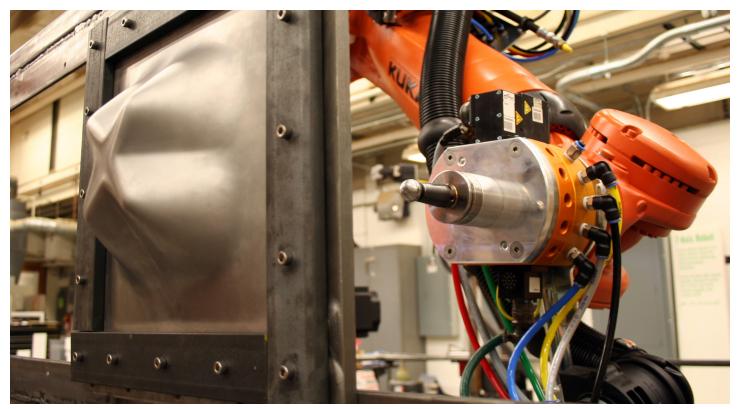
MW 10:00-11:30 Winter 2025 MS Studio or FABLab Wes Mcgee, Rm 1248A Office Hours, W 1-3 wesmcgee@umich.edu

The MS Robotic Engagement seminar provides an opportunity for students to explore cutting edge computational techniques and fabrication technologies in a seminar/supervised lab format. Projects will build upon the basic skills introduced in the practicum semester, with the intention of developing an advanced understanding of robotic and material fabrication skills which will feed into projects during the capstone semester.

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 processes 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 lectures, 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 each student's work or research trajectory; additionally these will be supplemented by required reading assignments.

The expected outcome of the course will be virtual and physical prototypes that explore new territories within these ongoing trajectories.



Per:Forming, Amar Kalo and Jake Newsum, MS DT 2013