

ARCH 581 Advanced Robotics

Th 8:30-11:30 Winter 2025

FABLab 1205 Robotics Lab

Wes Mcgee, Rm 1248A

Office Hours, Th 1-5, by appt.

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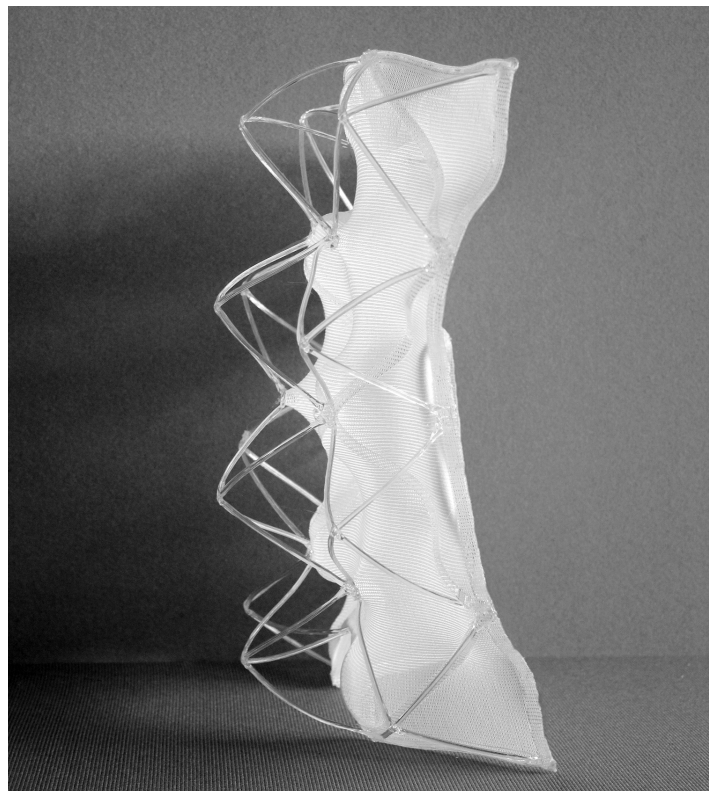
The advanced robotics seminar provides an opportunity for students to explore cutting edge computational techniques and fabrication technologies in a seminar/supervised lab format. Projects will build upon the basic skills introduced in tutorials at the beginning of the semester, with the intention of developing an advanced understanding of robotic and material fabrication skills which can support future research.

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.



Facade 1, Mania Meibodi and Wes McGee, w/ DMT students, 2021



Additive Fabrication on Knit Textile, Fatima Alzaabi