

Tulane School of Architecture
ADGM 6200: Digital Fabrication
Fall 2016

FORMAT: Lecture, Tutorials, and Fabrication

TIME: R, 6:30 – 8:45

LOCATION: RM 204

CREDITS: 3 credits

TYPE OF COURSE: Architecture Elective

PREREQUISITE: Highly proficient in Rhino 3D

INSTRUCTOR: Charles Jones

cjones30@tulane.edu



WORK SAMPLE : ADGM 6200 FALL 15

COURSE DESCRIPTION

This course will primarily deal with mold making as a fabrication technique to construct complex, three dimensional screens and panels.

Historically, the role of craft in architecture is often used to describe specialization in a singular technique such as the skillset of a mason, woodworker, or smith. The assembly of multiple techniques is also considered a specialty and is often referred to as fabrication. This is a general definition that allows for a wide range of research into the means and methods of making. This course will address a subset of that research, technology's influence on fabrication or digital fabrication. Specifically, we will focus on the technological influence of digital fabrication in architecture as a way to reframe the role of craft as a more fluid orchestration of multiple techniques. To extend beyond the realm of mere technical necessity, course content will focus on aspects of historic and contemporary architectural design methodologies that consider performance and expression in relationship to technologically driven fabrication techniques.

EXAMPLE RESEARCH SUBJECT

[ERWIN HAUER](http://erwinhauer.com) (ERWINHAUER.COM)

COURSE STRUCTURE

The class will be divided into two sections with shared lectures, tutorials, and reviews. Weekly meetings will include lectures, tutorials, and critiques, which will be applied to guided and collaborative design projects. Students are expected to spend a significant amount of time outside of class time developing design projects and necessary programming required to use the 3-axis CNC Router.

COURSE GRADING AND EVALUATION

Through fabrication projects and presentations students should demonstrate knowledge of additive/subtractive techniques, assembly, materials properties, application of techniques and properties to fabrication project, and most importantly best safety practices. The final project for this course is due following the university's schedule for final reviews. All students are required to attend the final project presentation. Attendance for this class is required. Any unexcused absence will directly affect your grade. An excessive number of late arrives will also directly affect your grade.

Participation and Attendance 20%

Guided Exercises 20%

Collaborative Design Project 60%

ACADEMIC POLICIES

This course is subject to the Tulane University Code of Academic Conduct. Any infractions will be handled by the Honor Board. All work submitted by the student should be completed by the student. Similarly, plagiarism will not be accepted. All assignments are to be completed individually unless otherwise noted.