CourseNo: ARCHA4535_001_2012_3
Meeting Location: AVERY HALL 113
Meeting Time: R 08:00P-10:00P

Instructor Information:
Joshua D. Uhl
David A. Fano

Fundamentals of Digital Design

The architectural drawing is a map. However, rather than conveying a set of existing conditions or adjacencies, the architectural drawing maps the process of developing an idea. The techniques and modes of representation are not only a critical player in the communication of one's idea, but they become part of the study, problem solving, and aesthetic of that idea. Therefore, understanding the range of techniques and representational methods of architectural drawing is essential to both the development and realization of one's ideas.

Fundamentals of Digital Design investigates the concepts, techniques, and representational methods of computer aided 'drawing' in architecture. Students will study the operative relationship between 2d and 3d data, exploring the reaches of their analytic and representational potential. While the class is a foundational course in architectural computing, it will build on the student's advanced ability to question, shape, and interrogate space and time.

The full-semester course will be focused on a project that is generated primarily with the use of Rhinoceros and 3dsMax. After the initial development of a virtual model, we will investigate tools to further the analytic and representational capacity of the data within the model. Studies will be in the form of drawings, images, and time based analyses. There will be one assignment with 3 milestones. Each of these milestones will be posted on the class web page for grading.

As a companion to the course lectures, the class will have weekly Tutorial Sessions. Tutorials are two hour 'hands-on' sessions led by a video tutorial with one-on-one assistance by the course TAs. The tutorials will cover the concepts and techniques covered in the course lecture. There will be tutorial assignments which will be covered only during the tutorial sessions. Tutorial times will be coordinated with your studio TA and will start the first week of classes.