Course Description Form

Course Number: ARCH 5715, 5716
Required or Elective: Required, M.Arch.2
Title: Architecture and Urbanism Laboratory
Credits: 6
Type of course: 1 hour lecture, 15 hour Laboratory
Instructor: H. Schnoedt, W. Galloway
Prerequisites: None

Description: Advanced design laboratory for identifying needs, resources, and operational methodologies across an expanded range of environmental scales. The scope of design includes the relation of the individual building to the environment in comprehensive terms, with particular emphasis on the complexity which exists at the urban scale. Methods for identification of socio-cultural needs and the coordination of complex variables, information, and resources, leading to the conceptualization and development of design of the components of the built environment.

Pedagogical Objectives: To develop student's abilities for independence, employing project criteria to expand architectural investigation beyond preconceptions, examining and questioning theories and methods through acts of making, and employing the project to learn what is important. Students develop the ability to work collaboratively and to critique their own and each other's work. Development of responsibility through understanding the consequences of one's actions and when necessary re-directing the project towards a focused conclusion. Previous revelations become a starting point for continued study of intentional and unintentional acts, fostering of a dialogue between thoughts and actions -- ideas to hand to paper/model. Experimentation with new materials, concepts and techniques in an effort to enhance architectural complexity.

Completion requirements: Demonstration of competence within parameters of the inter-relatedness of various components of building structure, life safety systems, and enclosure, the contribution of materials and methods of construction to the design process, the application of needs, resources, and methodologies across a range of environmental scales, the relationship of individual buildings to the environment, emphasizing the complexity that exists at the urban scale, the identification of methods for coordinating complex variables leading to conceptualizing and developing designed components for the built environment, and the intellectual and professional development of analysis, synthesis and evaluation in design problems.