**ARCH 6072: Architecture Design + Research Studio II, 6 credits**

**Course Description:**

Advanced architectural design emphasizing innovation through applied research. Emerging methods of design generation/evaluation. Changing topics: healthcare, fabrication, urbanism, ecology, building performance, cultural institutions.

**Course Goals & Objectives:**

* Ability to produce an architecture project informed by and in response to a research topic, based on disciplinary principals, from concept to schematic design through the detailed development of programmatic spaces.
* Ability to assess, select, configure and detail as an integral part of the design appropriate combinations of building materials, components and assemblies to satisfy the requirements of the building and site program.
* Ability to respond to site characteristics such as urban morphology, material specificity and environmental conditions: topography and infrastructure.
* Ability to synthesize information necessary to speculate on the design of building assemblies via drawings and models at various scales, including half and/or full-size mockups, of the basic principles utilized in the appropriate selection of construction materials, products, components, and assemblies, based on their inherent characteristics and performance, including their environmental impact and reuse.

**Student Performance Criterion/a Addressed:**

A.1. Communication (A) A.2. Design Thinking (A) A.3. Visual Communication (A)

A.4. Techn Documentation (A) A.5. Investigative Skills (A) A.6.Fundamental Design (A)

A.7. Precedents (A) A.8. Ordering Systems (U) A.09 Historical Traditions (U)

A.10 Cultural Diversity (U) A.11 Applied Research (U) C.1. Collaboration (A)

C.2.Human Behavior (U)

**Topical Outline:**

Research and Program Development 25% Final Presentation 30%,

Project Definition and Project Development 35% Project Description + Documentation 10%

**Prerequisites:**

ARCH 6071, Design and Research Studio I

**Textbooks/Learning Resources:**

Varies

**Semester & Frequency Offered:**

Spring; annually

**Faculty assigned:**

Marc Simmons, Charles Rudolph, Volkan Alkanoglu, Daniel Baerlecken, Tristan Al-Haddad