Number & Title of Course: ARQU 6311, 6312 & 6315: Building Studio (5 credits)

Course Descriptions: The course integrates issues of sustainability, technology and structures with a design process that leads to a medium-scale building proposal. Students will first engage an initial research phase that entails assessment, critical inquiry and strategic analysis of: historical data; general, regional, area and special zoning regulations; applicable codes of agencies that have a say in the area of intervention; and international, national and local building codes. During the second phase, the students will develop an individual design project that integrates the results of the previous investigation to their process. Final presentations consist of detailed design development documentation that illustrates the inner workings of responsible contemporary building design.

Course Goals & Objectives:

The Student will:

- **Complete** a group research phase that will guide the design process throughout the semester that includes the development of: research skills, awareness of cultural diversity, definition of pre-design criteria, identification of site-design issues, an understanding of the client's needs and the ability to work in collaboration with others.
- **Develop** an individual building project that reveals efficient use of precedents, informed design thinking and applied research, and addresses essential concerns related to: accessibility, life safety, sustainability, as well as, building environmental, service, and structural systems.

Student Performance Criterion/a addressed:

A01: Communication Skills	Ability
A02: Design Thinking Skills	Ability
A03: Visual Communication Skills	Ability
A04: Technical Documentation	Ability
A05: Investigative Skills	Ability
A06: Fundamental Design Skills	Ability
A07: Use of Precedents	Ability
A08: Ordering Systems Skills	Understanding
A09: Historic Traditions & Global Culture	Understanding
A11: Applied Research	Understanding
B01: Pre-Design	Ability
B02: Accessibility	Ability
B03: Sustainability	Ability
B04: Site Design	Ability
B05: Life Safety	Ability
B06: Comprehensive Design	Ability
B07: Financial Considerations	Understanding
B08: Environmental Systems	Understanding
B09: Structural Systems	Understanding
B10: Building Envelope Systems	Understanding
B11: Building Service Systems	Understanding
B12: Building Materials & Assemblies	Understanding
C01: Collaboration	Ability
C02: Human Behavior	Understanding
C03: Client Role in Architecture	Understanding
C06: Leadership	Understanding
C07: Legal Responsibilities	Understanding
C08: Ethics & Professional Judgment	Understanding
C09: Community & Social Responsibility	Understanding

Topical Outline

TOPIC	WEEKS
▪ Initial Research	03
▪ Building Design	11
○ Schematic design	
○ Incorporation of research material	
○ Preliminary design	
○ Integration of building systems	
▪ Final Presentation	02

Prerequisites: Admission to the Master of Architecture

Textbooks/ Learning Resources:

Alexander, Christopher. *A Pattern Language: Towns, Building, Construction,* Nueva York: Oxford University Press,: 1977.
Boyne, D.A.C., (ed). *Architects Working Details*, Londres: The Architectural Press, 1962.
Ching, Francis D. K. *Building Construction Illustrated*, Nueva York: Van Nostrand Reinhold, 1991.
Eisenman, Peter. *Written Into the Void*. Connecticut, Yale University Press, 2007.
Koolhas, Rem and Bruce Mau, *Small, Medium, Large, Extra-Large.* New York: The Monacelli Press, 1995.
Michalko, Michael. *Cracking Creativity: The Secrets of Creative Genius*, Berkeley, CA: Ten Speed Press, 2001.
Moneo, Rafael. *Theoretical Anxiety and Design Strategies.* The MIT Press, Cambridge Massachusetts, Barcelona: Actar 2004.

Offered: Fall & Spring; Annually

Faculty Assigned: José R. Davis & Victor Nieto / Thomas & Lucilla Marvel / Esteban Sennyey & Oscar Marty / Enrique Vivoni & Jorge Ramírez