ARCH 7102 Integrated Project Design Studio-Graduate, 6 credit hours

Course Description: Two-person teams develop architectural concepts, schematic proposals, and a detailed building design of an institutional building that integrates site, program, environmental, technology and building codes research and analysis.

Course Information

Course Number ARCH 7102
School of Architecture, UNC Charlotte

Kyounghee Kim, PhD, AIA, NCARB, kkim33@uncc.edu
Kelly Carlson-Reddig, kcarlson@uncc.edu
TBA

Course Goals & Objectives: Detailed development of a building design project that:
- Integrates site, program, and environmental research and analysis, and integrated design discovery through successive phases of concept development, schematic design, architectural design development
- Reflects conceptual, formal, aesthetic, technological, and environmental intentions
- Exhibits developed material, structural, construction detailing, and building systems
- Complies with International Building Code standards
- Is developed utilizing BIM (Building Information Modeling)

Methodology, Procedures, Skills/Outcomes, and Course Organization

Technique Seminars (TECSEM): Tech seminars supporting project research, analysis and development including the following topics: Revit Instruction (Integrated over semester), Site Analysis, Effective Diagramming, Architectural Drawing Sets, Program Analysis, Environmental Control Systems/ Sustainability, Accessibility & Circulation, Building Codes, Structural Systems / Span / Foundations, Envelope / Enclosure, Site Grading, Wall Sections & Materials, 2) Weekly Desk Critiques, 3) Regular Pin-up reviews.

Project Development during the semester:
- Site Research and Analysis
- Program Research and Analysis
- Revit Instruction / Support
- Concept Development, Modeling, Diagramming & Representation
- Building Codes Conceptual
- Environmental Systems Integration Diagramming
- Schematic Design, Modeling, Diagramming & Representation
- Design Development, Modeling, Diagramming & Representation
- Building Codes Analysis Detailed
- Structural Systems / Wall Section Details

Course or Studio Readings

Allen, Edward & Joseph Iano. The Architect's Studio Companion
Ching, Francis. Building Construction Illustrated

Course or Studio Requirements and Grading

Successful final projects must: 1) qualitatively and technologically meet the objectives and aims articulated in the syllabus and subsequent handouts, 2) represent comprehensive development as defined by the NAAB accreditation requirements, and 3) comply with the requirements of the International Building Code.

Communication Requirements (Written, Diagrammatic, Graphic etc.)			5%
Schematic Submission			20%
Wall Section, Enclosure Strategy and Integration			10%
Charrette Assignments			5%
Project			50%
Development / Final Project and Presentation		[25%]	
• Conceptual and Design Clarity/Resolution	30%		
• Development / Comprehensiveness	30%		
• Focus Area Development	20%		
• Communication / Representation	20%		
Design Development Documents		[25%]	
• Conceptual and Design Clarity/Resolution	30%		
• Development / Comprehensiveness	30%		
• Technical Feasibility and Completeness	20%		
• Communication / Representation	20%		
Participation / Progress			10%
			100%