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 a cultural building that integrates site, program, environmental, technology and building codes research and analysis.

**Course Information**
Course Number ARCH 7102  
School of Architecture, UNC Charlotte  
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**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, and
- 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 (5%)
- Program Research and Analysis (5%)
- Revit Instruction / Support (10%)
- Concept Development, Modeling, Diagramming & Representation (15%)
- Building Codes Conceptual (2%)
- Environmental Systems Integration Diagramming (4%)
- Schematic Design, Modeling, Diagramming & Representation (20%)
- Design Development, Modeling, Diagramming & Representation (25%)
- Building Codes Analysis Detailed (4%)
- Structural Systems / Wall Section Details (10%)

**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 10%  
- Wall Section, Enclosure Strategy and Integration 10%  
- Charrette Assignments 10%  
- Project Development / Final Project and Presentation 50%  
- Conceptual and Design Clarity/Resolution 30%  
- Development / Comprehensiveness 20%  
- Focus Area Development 20%  
- Communication / Representation 30%

Department Development Documents 25%  
- Conceptual and Design Clarity/Resolution 30%  
- Technical Feasibility and Completeness 40%  
- Communication / Representation 30%  
- Tools Integration [digital and Analog] 5%  
- Participation / Progress 10%  
- 100%