Description: Advanced architectural studio with emphasis on Comprehensive Integrative Design for maximum value creation under the realistic technical, legal, and budgetary limitations. The subject projects are technologically demanding and functionally complex buildings such as Tall Buildings, Hospitals, Research Labs, and Air Terminal Buildings. The projects are typically the real ones that are being or recently designed by the firms of international prominence. On a rotating basis, the firms serve as the Teaching Offices with their senior members serving as Expert Consultants as well as the “Client.” To acquire the skills for successful project execution with maximum value creation, the projects are executed collaboratively through project teams under strict time-budget and project requirements through comprehensive integrative design process. A full-day trip to Chicago is required for the Project Kick-off Meetings with the “Clients” and Lectures on designing the subject building types by the experts of the Teaching Offices. An additional trip may be required for design reviews in the Teaching Offices.

Objective: To increase intellectual acumen and the ability for successful Comprehensive Integrative Building Design that can best accomplish the Project Goals and Design Objectives within the limited means and constraints through synergistic integrative design process and successful team collaboration.

Strategy: The studio setting simulates an office practice with the instructor overseeing the project processes of each design team with strict time budget. The projects are executed in Two Phases: Concept Design Phase and Final Design Phase. Concept Designs are formulated during the first half of the semester. This is presented to and comments received from the “Clients”/Expert Architects of the Teaching Office at the Mid-semester Review. During the second half of the semester, with the benefit of and in response to all the comments and feedbacks from the clients/expert architect, the Concept Design is further developed into successful Final Design. These are presented to the clients for the Final Review at the end of the Semester.

The instructional setting is in two modes: Seminar and Independent Studio. While design thinking must be comprehensive and integrative throughout the entire design process, for pedagogic necessity, the course addresses as it progresses various focal design agenda in each session that are particularly relevant at that stage of design progress. The Seminar Sessions are either for lectures on Focal Topical Issues of more general nature necessary to facilitate design development for the next session; or discussions on the Specific Design Issues in the context of the Design-in-Progress for acquisition of the “Design-Knowledge-in-Context” while facilitating design development further into the proper direction at the same time. Independent Studio Sessions are where the design ideas that have emerged through the seminar sessions are further developed, their viability tested, and further developmental possibilities explored.

Class Meetings: MW 1:00 – 3:50 PM: Topical Lecture / Design Issue Discussion (Also on some Fridays)
MW 4:00 – 4:50 PM & F 1:00 – 4:50 PM: Independent Studio

Prerequisite: None. However, Arch 544: Integrative Design of Buildings is strongly recommended.

Credit Units: 6 Graduate Hours

Presentation & Final Submission: All the presentation will be Electronic in PowerPoint format. Final submission shall include:
1. One Bound Comprehensive Project Booklet.
2. Electronic Documents of both the Final Project Booklet and the Mid and Final Presentations
3. Physical Models: a) the Site Model (as a class except for a small scale building model on it) and b) the Building Model

Grading Bases:
Project Execution: 1/3
Presentation & Discussion: 1/3
Final Project Quality: 1/3
Classroom Activity ± 10% max.
Within-Group Adjustment ± 10% max.

Teaching Offices and the Projects for Spring 2017:
Teaching Offices:
• CannonDesign, Chicago, IL
• Gensler, Chicago, IL
Projects: Healthcare and Tall Building TBA
Arch 573: Comprehensive Integrative Design
Michael Kyong-il Kim, Ph.D., AIA, NCARB
Professor of Architecture

Spring 2017
Objectives:

To prepare the Students to become Competent & Respectable Architects with

- Strong Sense of Professional Responsibility and
- The Ability for Comprehensive Integrative Design of Buildings that can best accomplish the Project Goals of
  1) enhancing the Quality of Life of the people while
  2) facilitating best accomplishment of the Institutional Mission & Vision of the Client
Strategies

- Comprehensive Integrative Design of
  - Real Projects
  - Working with the Teaching Offices of International Prominence
- Acquisition of Knowledge-in-Context as the design progresses through “Design-based Topical Seminars.”
- Learn How to Design as well as How to Execute the project efficiently
Teaching Offices & the Projects:

**CannonDesign, Chicago, IL**
Healthcare Facility with the Mentoring Team of:
Troy Hogart
James Skalla
Todd Acardi
Mark Roser
Stephanie Pifcko

**Gensler, Chicago, IL**
Mixed-use Tall Building the Mentoring Team of:
Grant Uhlir
Brian Vitale
Scott Hurst
Some Examples of the Past Students’ Work
The Studio Process:

- **Preparatory Phase (2 weeks):**
  - Project Kick-off Meeting and Site Visit
    - Friday, January 20, Offices of Cannon and Gensler, Chicago, IL
  - Project Goals & Design Objectives
  - Case Studies on the Design of the Subject Building Type
  - Requisite Functional Units: Organization & Requirements

- **Concept Design Phase (7 weeks):**
  - Lecture/Discussion on Project Specific Topical Issues
  - Exploration of Concept Design
  - Concept Design Review (Friday, March 17 in Chicago)

- **Design Development Phase (5 weeks):**
  - Lecture/Discussion on Project Specific Topical Issues
  - Development of the Design
  - Final Design Review (Friday, April 28 on Campus)