**Architecture 573 (Kim): Integrative Architectural Design**  
*Prof. Michael K. Kim • Room 212 TBH • 244-8012*

**Description:**  
Comprehensive architectural studio with emphasis on holistic integrative design of buildings for maximum value creation under the realistic temporal, 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 real ones that are (being) designed by the firms of international distinction. On a rotating basis, the firms serve as Teaching Offices with their executive and senior members of the real project team serving as the Expert Consultants as well as the “Clients.” To acquire the skills for successful project execution, the projects are executed collaboratively through project teams under the strict project requirements and time-budget. A full-day trip to Chicago (or St. Louis) is required for the Project Kick-off Meeting and Lecture/Presentations by the Teaching Offices both as the Clients and the Expert Architects.

**Objective:**  
To increase the ability for comprehensive Integrative Design of Buildings to best accomplish the desired project goals and maximum value creation within the limited means and constraints.

**Strategy:**  
The projects are executed comprehensively from the determination of the project goals and design objectives to the final design as a means of best supporting the client’s accomplishment of their mission and further maximizing value creation not only for the client but also for the users and the public. For greater educational outcome and project efficiency, the projects are executed through team collaboration as in the real practice. During the first 8 weeks, two Concept Designs are formulated by two 2-person sub-teams of the 4-person project team. These are presented and discussed with the “Client (the Teaching Office)” at the Mid-semester Review. Selections follow, and incorporating all the comments and feedbacks from the review, the chosen scheme is developed into the Final Design by the project team of 4 during the remaining 6 weeks of the semester for the client’s final approval.

The instructional setting is in two modes: Seminar and Independent Studio. The seminar sessions are either for the lecture/discussion on the Relevant Topical Issues of general nature or the Specific Design Issues in the context of the design in progress. Studio sessions are where the design ideas that have emerged through the seminar sessions are developed, their viability tested, and further developmental possibilities explored.

**Preparatory Course:**  
Arch 544: Integrative Design of Buildings (Building Systems & Design Integration) is most strongly recommended prior to taking this studio.

**Class Meetings:**  
MWF 1:00 – 3:50 PM: Lecture/Discussion: Topical/Design Issues  
MWF 4:00 – 4:50 PM: Independent Studio

**Presentation & Final Submission:**  
All the presentation shall be with PowerPoint. Final submission shall include:

1. Comprehensive Project Booklet
2. Electronic Documents of both the Project Booklet and the Mid & the Final Presentations
3. Physical Models: a. Site Model (as a class) and b) Building Model
4. Boards will also be required from those nominated for Design Excellence Award.

**Credit Units:**  
6 Graduate Hours

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

**Fall 2012 Projects/Teaching Offices:**  
Project A: Mixed-use Tall Building (2.5 million ft², 90+ Stories), Chicago, IL;  
Teaching Office: SOM, Chicago, IL

Project B: Rehabilitation Hospital (900,000 ft², 40+ Stories, Chicago, IL;  
Teaching Office: HDR/Gensler, Chicago, IL.