Architecture 573 (Kim): Comprehensive Integrative Design
Prof. Michael K. Kim ● Room 212 TBH ● 244-8012

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 internationally 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, the projects are executed collaboratively through project teams under strict time-budget and project requirements through comprehensive integrative design process to arrive at maximum value creation. A full-day trip to Chicago (or St. Louis) is required for the Project Kick-off Meetings and Lecture/Presentations by the Teaching Offices as the Clients/Expert Architects.

Objective: To increase 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 efficiency, the course progresses addressing specific 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 the acquisition of “Design-Knowledge-in-Context” while facilitating design development further into the proper direction at the same time. 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.

Presentation & Final Submission: All the presentation will be Electronic in PowerPoint format. Final submission shall include:

1. Two Bound Comprehensive Project Booklets.
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

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

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.

The Projects & the Teaching Offices, Spring 2015:
[Subject to Change] Project A: Mixed-use Tall Building (2.5 million ft²; 80+ Stories), Chicago, IL; Teaching Office: SOM, Chicago, IL
Project B: Spaulding Hospital (320,000 ft²), Boston, MA; Teaching Office: Perkins+Will, Chicago, IL.