**Architecture 573 (Kim): Comprehensive Integrative Design Studio**

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**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 (or St. Louis) is required for the Project Kick-off Meetings and Lecture/Presentations by the Teaching Offices as the Clients/Expert Architects. Additional trip(s) may be required for Design Review(s) in the Teaching Offices for greater educational benefit.

**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 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 the acquisition of “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:** Arch 544: Integrative Design of Buildings (not required but most 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.

**The Projects & the Teaching Offices, Spring 2016:**
- Hospital A – with HDR as the Teaching Office
- Hospital B – with P+W as the Teaching Office