Integrtd Design & Construction - INDC

Courses

INDC 5040 SUSTAINABILITY FOR INTEGRATED PROJECT DELIVERY (3) LEC. 3. Departmental approval. Principles, terminology, and methods of sustainable design and construction, with emphasis on role of interdisciplinary design collaboration. Must have APLA or BSCI.

INDC 5510 DESIGN & CONSTRUCTION PROCESS (3) LEC. 3. Departmental approval. Identification and balancing of architectural and urban design issues, tools and processes used by professional construction managers, with emphasis on collaborative aspects and their impact on efficiency.

INDC 5610 DESIGN BUILD STUDIO (7) LEC. 3, LST. 9. Pr. ARCH 4020. Departmental approval. First of three-studio progression. Integrated project delivery approach to design practice, with emphasis on development of facility with the design technologies and strategies and advanced digital tools.

INDC 5620 DESIGN CONSTRUCTION STUDIO (6) LEC. 2, LST. 9. Pr. ARCH 4020. Departmental approval. Second studio develops skills associated with schematic design phases of architectural project; emphasis on rigorous design research methods, program development, interdisciplinary collaboration. APLA

INDC 6040 SUSTAINABILITY FOR INTEGRATED PROJECT DELIVERY (3) LEC. 3.

INDC 6510 DESIGN & CONSTRUCTION PROCESS (3) LEC. 3. Identification and balancing of architectural and urban design issues, tools and processes used by professional construction managers, with emphasis on collaborative aspects and their impact on efficiency. Students must be IDC major.

INDC 6610 DESIGN BUILD STUDIO (7) LEC. 3, LST. 9. First of three-studio progression. Integrated project delivery approach to design practice, with emphasis on development of facility with the design technologies and strategies and digital tools employed in advanced practice.

INDC 6620 DESIGN CONSTRUCTION STUDIO (6) LEC. 2, LST. 9. Pr. INDC 6610. Second studio develops skills associated with schematic design phases of architectural project; emphasis on rigorous design research methods, program development, interdisciplinary collaboration.

INDC 6640 SUSTAINABILITY FOR INTEGRATED PROJECT DELIVERY (3) LEC. 3. Principles, terminology, and methods of sustainable design and construction, with emphasis on role of interdisciplinary design collaboration.

INDC 7020 INTEGRATED BUILDING PROCESSES (3) LEC. 3. Departmental approval. Project manifestation and development preceding design/construction phases with emphasis on project owner’s perspective, financial parameters, and speculative demand driving project viability.

INDC 7030 CONSTRUCTION INFORMATION MANAGEMENT (3) LEC. 3. Departmental approval. Applications of advanced information technology in building construction.

INDC 7040 INTEGRATED BUILDING PROCESSES II (3) LEC. 3. Departmental approval. Construction project delivery, from pre-construction through ownership.

INDC 7550 COLLABORATIVE PRACTICE (3) LEC. 3. Coreq. INDC 7551 and INDC 6620. Current integrated delivery models and decision-making strategies related to interface of design and construction disciplines from professional, contractual and technological perspectives.

INDC 7551 COLLABORATIVE PRACTICE LAB (1) LAB. 4. Coreq. INDC 6620 and INDC 7550. Problem solving exercises (related to material covered in INDC 7550 and INDC 6220) will enable inter-disciplinary teams of students to apply principles of effective pre-construction practices.

INDC 7630 DESIGN CONSTRUCTION SUMMARY COMPREHENSIVE STUDIO (7) LEC. 3, LST. 9. Pr. INDC 6620 and INDC 7550 and INDC 7551. Final studio. Development of design and construction for architectural project in interdisciplinary teams, including analysis of constructability, projected construction cost, and scheduling.
INDC 7650 EXECUTIVE ISSUES (3) LAB. 3. Departmental approval. Individually proposed problems or projects related to the construction industry. Students must prepare a written proposal with defined deliverables.

INDC 7950 GRADUATE SEMINAR (1) SEM. 1. Departmental approval. Project manifestation and development preceding design and construction phases with emphasis on the project owner’s perspective, the financial parameters, and the speculative demand driving project viability.