

College of Architecture

Department Web site: www.arch.iit.edu

Now, in the new century, architecture must fill an ever more demanding role in asserting human values in a rapidly changing, technology-driven and increasingly complex global society. The integration of new construction, along with the conservation of the old, brings together current issues of urban housing, commercial development, infrastructure and transportation, along with critical concerns for energy and a sustainable environment. The resulting cultural values of community development must be adaptable to both domestic and international contexts, and thoughtful to the consequences of what we build.

Drawing strength from its Mies van der Rohe heritage, its key position in the legacy of Modernism, its location in Chicago, and its connections to progressive practitioners and emerging global practices, the College of Architecture offers the professional, five-year Bachelor of Architecture (B.Arch.) degree. Accredited by the National Architectural Accrediting Board (NAAB), this well-established degree program prepares architects to use communication and analytical skills to provide inventive solutions to a broad range of design problems.

The objectives of the B.Arch. program prepare architects to respond to an increasingly complex global condition, within cities and beyond. Informed by humanist ideals, our graduates combine technical expertise and environmental awareness to design and execute individual buildings as well as sensitively planned landscapes at any scale, in any material. Consisting of tenured faculty and practicing architects, our teachers are committed to training and educating a diverse student body for a broad range of professional career opportunities in architecture and the construction industry. Integrating advanced digital technology and design studio training, our program prepares our graduates to:

- Design functional, compelling buildings to meet the needs of a complex, changing world.
- Work collaboratively with allied professionals (engineering, landscape architecture, construction management, etc.) to produce quality built environments.
- Enter the profession equipped with an integrated knowledge of complex construction technologies, craftsmanship, materials, and an inspired sense of design excellence.
- Articulate in two-dimensional and three-dimensional visual form a contemporary vision for architectural excellence responsive to the 21st century's cultural, economic, regulatory, environmental, ethical, and material contingencies that condition the built world.
- Take leadership roles throughout their lives to support design excellence, develop technical expertise, advance professional practice, practice ethical integrity, and promote respect for the architect in contemporary society.

- Consider all aspects of the built environment to insure a sustainable and planned integration of architecture with the natural environment and its resources. .

To understand architecture in its global context, IIT students are encouraged to travel outside the United States to study modern and historic buildings. Students may enroll in the European Study Program, a Paris-based studio defined by travel, drawing and projects derived from contemporary urban landscapes. Recent advanced studios have been situated for one month in Asia and South America.

The College's roots are firmly embedded in Chicago's architectural history. Creative pioneers like Sullivan, Jenney, Root, Burnham and Wright produced a body of work that established the principles of modern architecture. These architects were inspired by exciting new engineering possibilities, yet they never wavered from the unifying belief in a rich cultural expression of architecture for their time. They also believed in education and, in 1895, combined a course of study in drawing and construction at the Art Institute of Chicago, with the support courses of history, mathematics and engineering from the then Armour Institute of Technology. The catalog for this new program was called the Chicago School of Architecture.

Out of these beginnings, the College's faculty and students continue to engage with complexities that inform architectural education and future practice. Located in one of the world's greatest cities for the study of architecture, the most outstanding architectural and engineering resources of Chicago provide both faculty and reinforcement of the educational mission. Moreover, S.R. Crown Hall, designed by Mies van der Rohe, is the ultimate space to study architecture. Set within the Mies-designed campus, it has become recognized as one of the most significant buildings of the 20th century.

Current curricular emphases are in digital applications (including Building Information Management), advanced technologies, design and theory, Landscape Architecture and its relationship to Architecture, development and Design/Build, Sustainability and Planning, and History/Theory/Criticism. A dynamic campus center by Rem Koolhaas and residence hall by Helmut Jahn have energized the historic campus landscape. To meet expanded studio and faculty requirements, the College has adapted important Mies buildings for additional teaching and design/build projects.

With a demonstrated legacy of excellence, IIT Architecture seeks to become a force for designing built environments of high quality through the incorporation of planing, technology, materials, space and formal generation. The responsible integration of these attributes is promoted to accentuate the historical, social, cultural, and environmental imperatives requisite to better society.

Architecture

Faculty

Dean

Donna V. Robertson, FAIA
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Associate Dean and Director of Graduate Programs

Peter Beltemacchi
S.R. Crown Hall
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Assistant Dean for Undergraduate Academic Affairs

R. Stephen Sennott
S. R. Crown Hall
Ext. 78835

Assistant Dean for Graduate Academic Affairs

Nicole X. Osborne
S.R. Crown Hall
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Professors

Elnimeiri, Land

Associate Professors

Beltemacchi, Hovey, Krawczyk,
Mallgrave, Robertson, Schipporeit,
Sharpe, Takeuchi

Assistant Professors

Brock, Conger-Austin, Denison,
Durbrow, Flury, Gentry, Kearns,
Kultermann, Riley, Ronan, Wetzell

Studio Professors

Horn, R. Jones, Karidis, Krueck

Studio Associate Professors

Brown, Felsen, Nagle, Pettigrew,
Roesch, Stutzki

Instructor

Braucher, Davis, Gould,
Kim, McLeish

Distinguished Research Professor

Sobel

Morgenstern Visiting Critic

Murcutt (2004)
deVries (2005)
Chipperfield (2006)

Adjunct Professors

Brubaker, Clark, Hamill, Hartray,
Karlovit, Moreno, Peterson, Ryan,
Thomas, Uhler, Wimer

Adjunct Associate Professors

Desalvo, Gang, Geiger, Glynn,
Goldsmith, Grzeslo, Kriegshauser,
Miller, Nelson, Palmer, Paradiso
Sennott, Schendel

Adjunct Assistant Professors

Beck, Brewer, Lozano, Danley,
Emmick, Fleener, Greenberg, Hall,
Issa, Johnson, K. Jones, Kibler,
Kintigh, Klaeschen, Kohnke,
Kowalczyk, Krone, Pack, Peluso,
Pierraci, Schachman, Shell, Shojaie

Visiting Assistant Professor

Ellingsen, Flohr, Kober, Koreman,
Wood

Research Associate

Moddrell, Parente, Tamai

Faculty Emeriti

Danforth, Hannaford, Thomas,
Utsunomiya

Professional Degrees

The undergraduate professional degree program at IIT has always been a comprehensive five-year fully accredited Bachelor of Architecture (B.Arch) degree. The educational format is based on providing the fundamental body of knowledge required by the profession within a fully coordinated three-year core studio sequence. Each of the three years is team taught to horizontally integrate all courses within each year and vertically sequence learning experiences from year to year. This professional background within the three-year core becomes the preparation for the last two years of elective design studios focused on topic areas such as spatial awareness, comprehensive building design, and the design of large building complexes.

IIT has also taken a leadership role in addressing the responsibilities of professional education for the 21st century's global workplace. While technical proficiency will always be necessary, IIT recognizes that colleges must also educate students to work as part of teams, to communicate well, and to understand the economic, social, environmental and international context of their profession. Faculty are encouraged to broaden the upper-level studios to become real-world interdisciplinary projects. This emphasis on holistic learning, when combined with a new global vision and advanced computer and communication technology, positions IIT and the College of Architecture on the leading edge of higher education.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. A program may be granted a 6-year, 3-year, or 2-year term of accreditation, depending on the extent of its conformance with established educational standards.

Master's degree programs may consist of a preprofessional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

The four-year pre-professional degree, where offered, is not accredited by NAAB. The pre-professional degree is useful to those wishing a foundation in the field of architecture as preparation for either continued education in a professional degree program or for employment options in fields related to architecture. (The College does not offer this four-year pre-professional degree.)

Bachelor of Architecture

Required Courses	Credit Hours	Required Courses	Credit Hours
Architecture Requirements	84	Mathematics Requirements	6
ARCH 100, 109, 110, 113, 114, 125, 201, 202, 226, 305, 306, 403, 404, 413, 417, 418, 419, 420, 423		MATH 119, 122	
Building Science/Structural Requirements	9	Physics Requirement	4
ARCH 230, 334, 335		PHYS 200	
Art and Architectural History Requirements	9	Humanities and Social Science Requirements	21
AAH 119, 120		See general education requirements on page 25	
ARCH 321		Interprofessional Projects (2)	6
Architectural History Elective	3	Architecture Electives (7)	21
City and Regional Planning Requirements	6	Total Credit Hours	169
CRP 201, 465			

Architecture

Architecture Curriculum

Semester 1			Lab.	Cr.	Semester 2			Lab.	Cr.
		Lect.	Hrs.	Hrs.			Lect.	Hrs.	Hrs.
ARCH 113	Architecture Studio I	0	12	6	ARCH 114	Architecture Studio II	0	12	6
ARCH 100	Introduction to Architecture	2	1	3	ARCH 110	Freehand Drawing II	0	4	2
ARCH 109	Freehand Drawing I	0	4	2	MATH 122	Introduction to Mathematics II	3	0	3
MATH 119	Geometry for Architects	3	0	3	ARCH 125	Introduction to Architectural Computing	1	2	3
Humanities 100-level Elective		3	0	3	Humanities or Social Science Elective		3	0	3
Totals		8	17	17	Totals		7	18	17
Semester 3					Semester 4				
ARCH 201	Architecture Studio III	0	10	5	ARCH 202	Architecture Studio IV	0	12	6
AAH 119	History of World Architecture I	3	0	3	ARCH 230	Architecture and Structure	3	0	3
ARCH 226	CAD in Practice	2	2	3	AAH 120	History of World Architecture II	3	0	3
PHYS 200	Basic Physics for Architects	4	0	4	CRP 201	The Dwelling	3	0	3
Totals		9	12	15	Social Science Elective		3	0	3
Semester 5					Semester 6				
ARCH 305	Architecture Studio V	0	12	6	ARCH 306	Architecture Studio VI	0	12	6
ARCH 403	Mechanical and Electrical Building Systems for Architects I	3	0	3	ARCH 404	Mechanical and Electrical Building Systems for Architects II	3	0	3
ARCH 423	Architectural Programming	3	0	3	ARCH 335	Reinforced Concrete and Continuous Structure	3	0	3
ARCH 334	Frame Structural System and Steel	3	0	3	CRP 465	The Ecological Basis of Planning	3	0	3
ARCH 321	History of Modern Thought	3	0	3	Architecture Elective		3	0	3
Totals		12	12	18	Totals		12	12	18
Semester 7					Semester 8				
ARCH 417	Architecture Studio VII	0	12	6	ARCH 418	Architecture Studio VIII	0	12	6
History of Architecture Elective		3	0	3	IPRO Elective		1	6	3
Social Science Elective		3	0	3	Humanities Elective		3	0	3
Architecture Elective		3	0	3	Architecture Elective		3	0	3
Architecture Elective		3	0	3	Totals		7	18	15
Totals		12	12	18	Semester 9				
Semester 9					Semester 10				
ARCH 419	Architecture Studio IX	0	12	6	ARCH 420	Architecture Studio X	0	12	6
IPRO Elective		1	6	3	ARCH 413	Architectural Practice	3	0	3
Social Science Elective		3	0	3	Humanities Elective		3	0	3
Architecture Elective		3	0	3	Architecture Elective		3	0	3
Architecture Elective		3	0	3	Totals		9	12	15
Totals		10	18	18	Total Credit Hours				

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Optional Programs

Architecture students are encouraged to select electives that provide a sequence of 15 credit hours of learning experiences related to a specific interest that will reinforce the curriculum.

Such topical fields of study should be chosen early in the student's program in consultation with their academic adviser.

Bachelor of Architecture/Master of Business Administration Double-Degree Option

Qualified students may earn both the Bachelor of Architecture and Master of Business Administration (M.B.A.) degrees in six, rather than the normal seven, years. Students who are completing their eighth semester, or an equivalent of 124 credit hours, in architecture at IIT may apply for entry into the joint program. They

should take preparatory courses for the M.B.A. prior to entry and the Graduate Management Admission Test (GMAT) during the eighth semester. Students who anticipate entering into the program should seek advising in the Stuart School of Business and the College of Architecture early in their studies at IIT.

Bachelor of Architecture/Master of Civil Engineering Double-Degree Option

Qualified students regularly enrolled at IIT may earn both the Bachelor of Architecture and the Master of Civil Engineering (M.C.E.) Degrees. They must complete preparatory courses for the M.C.E. prior to entry into the combined program. Students who anticipate entry into the combined program and who intend to specialize in structural engineering must successfully complete the following courses as part of their undergraduate program in architecture: MATH 151, MATH 152, MATH 251, CAE 303, CAE 304, CAE 307, CAE 310, CAE 431, and CAE 432 in place of MATH 119, MATH 122, CAE 287, CAE 351, CAE 352 and as technical electives. Students

who anticipate entry into the combined program and who intend to specialize in construction engineering and management must successfully complete the following courses as part of the technical electives in their undergraduate programs in architecture: CAE 323, CAE 431, CAE 432 and CAE 457.

Students who anticipate entering into the program should seek advising in the Department of Civil and Architectural Engineering and the College of Architecture early in their studies at IIT.

Minors and Concentrations

College of Architecture students may pursue a minor in another department; however, the requirements for a minor must be met in addition to the curricular requirements for the Bachelor of Architecture degree. Requirements for architecture electives are most often met by courses offered in the College of Architecture. When deemed appropriate by an adviser or a dean, and in consultation with the Office of Educational Services, a select number of courses from other departments may

serve as an architecture elective. These have included CRP courses, ID courses in architectural photography, or selected CAE courses related to construction management or civil and architectural engineering. Within the College of Architecture, students may concentrate their required architecture elective courses to design a specialized area of study such as advanced CAD presentation, architectural history, or city planning. Students should consult with their respective adviser early in their program of study.