

Architecture

<http://www.arch.iastate.edu>

Undergraduate Study

The undergraduate program in architecture is an accredited five-year curriculum leading to the Bachelor of Architecture degree. The program provides opportunities for general education as well as preparation for professional practice and/or graduate study. An optional one-semester foreign study program is offered to fourth year students.

The undergraduate curriculum includes one year of the college's Core Design Program followed by a four year professional program. Admission to the professional degree program is based on the applicant's performance in the completed pre-professional curriculum; previous high school record (or transfer record where applicable); portfolio and essay evaluations; and on available departmental resources.

Objectives of the Bachelor of Architecture program:

The department is committed to the study of architecture as a cultural discipline in which issues of practice, of the multiplicity of social formations in which buildings exist, and of environmental effect are enfolded with the subject matter of building design - construction, space, material, form and use. Architecture arises from the aspirations that diverse individuals and groups have for their physical environment, and from the social enterprise of designing and fabricating the landscape we inhabit. It involves individual and multiple buildings, the spaces within them, and the exterior landscape.

It is our intent: that our students develop the skills with which to critically assess and research architectural questions and to invent architectural designs that address those questions; that they develop a working method for designing and that they have the communication, graphic, modeling and computational skills to support design exploration and to represent their design ideas to others; that they gain knowledge of architectural technologies through which buildings are given form, of which they are constructed and by which they are environmentally tuned and made sustainable; that they understand architectural history, that they understand the theoretical and diverse cultural underpinnings of the discipline of architecture, that they are able to reference architectural precedents and know how to utilize all of these in the development of their ideas; and that they have grounding in the ethical and practical aspects of the architectural profession in society.

For students entering the professional program, the department highly recommends purchase or lease of a laptop/notebook computer and appropriate software.

Graduate Study

The Department of Architecture offers two graduate degrees in architecture: a three-year accredited professional degree (M.Arch.) and a two-semester to three-semester research degree (M.S. in Arch.). Both degrees encourage interdisciplinary work within the College of Design and across related fields within the university. Double-degree programs are currently offered with the Department of Community and Regional Planning (M.Arch. / M.C.R.P.) and the College of Business (M.Arch. / M.B.A.). Financial support in the form of teaching and research assistantships is available competitively.

Master in Architecture

M.Arch. is an accredited professional degree in architecture. It is designed for students with undergraduate degrees in disciplines other than architecture as well as for students who hold four-year pre-professional degree in architecture.

The M.Arch. program demands engagement with contemporary issues and a commitment to lifelong learning. We encourage students to examine the relationships between local, regional and global contexts addressing environmental, social and technological issues. We believe that even though the scale of the architect's action might be limited, the range of information needed to make creative, intelligent and responsible design decisions is vast. We expect our graduates to value the necessity of research, interdisciplinary learning, and teamwork.

M.Arch. is accredited by the National Architectural Accreditation Board (NAAB) and leads to a professional Master of Architecture degree over three years including the first summer term. The curriculum starts with an intensive three-semester course sequence that places equal emphasis on three study areas: architectural design and media, science and technology, and theory and history seminars on the built environment. While this learning framework shapes the whole curriculum, the remaining four semesters have a more open structure that

allows students to explore architecture within an interdisciplinary context. These four semesters include a number of options, including study abroad, specialized studios with a variety of faculty, and the opportunity to do an independent project.

Students with undergraduate degrees in architecture or other related design fields may be given advanced standing in the program; advanced standing students may waive up to the whole first year. Students admitted to the program hold undergraduate degrees in a broad range of fields such as art history, history, literature, interior design, economics, mathematics, computer science, anthropology, and medicine. These students must complete the full three years of the curriculum.

Master of Science in Architecture

M.S. in Arch. is a 30-credit research degree with a required graduate thesis. As a research degree, this program is not subject to NAAB accreditation.

M.S. in Arch. is open for applicants who hold a professional degree in architecture or other related design fields. Applicants are required to submit a research proposal that lies within one of the listed study areas. These study areas are: Sustainability and Green Design, Rural and Urban Studies, Representation and Digital Media, Design Inquiry, Advanced Building Design, Architectural and Construction History, and Building Science and Construction. The degree is also open for applicants with non-professional degrees in various fields depending on the study area proposed by the applicant.

Financial support in the form of teaching and research assistantships is available.

Contact the department office for specific curricula.

Curriculum in Architecture

The Department offers undergraduate and graduate degree programs:

A 167.5-credit undergraduate professional program, including the 30-credit Core Design Program, leading to the Bachelor of Architecture degree. (B. Arch.)

A 100-credit graduate professional program leading to the Master of Architecture. Applicants holding B.S. or B.A. degrees in Architecture or other affiliated design fields may be given advanced standing in this program. (M.Arch.)

A 30-credit interdisciplinary graduate program leading to the Master of Science in Architecture. (M.S. Arch.)

For more complete graduate program descriptions see Graduate Study under Architecture in the Courses and Programs section.

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 pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

Total B. Arch. Requirement: 167.5 cr.

Only 65 cr from a two-year institution may apply which may include up to 16 technical cr.; 9 P-NP cr of free electives; 2.00 minimum GPA.

International Perspective: 3 cr.

U.S. Diversity: 3 cr.

Communications: 10 cr.

(C- or better grade)

ENGL 150	Critical Thinking and Communication	3
ENGL 250	Written, Oral, Visual, and Electronic Composition	3
LIB 160	Information Literacy	1
Plus three credits from approved list.		3
Total Credits		10

Humanities: 6 cr.

6 cr. from approved list.

Social Sciences: 6 cr.

6 cr. from approved list.

Math and Physical Sciences: 8 cr.

MATH 145	Applied Trigonometry	3
PHYS 111	General Physics	5
Total Credits		8

Design Core 11.5 cr.

DSN S 102	Design Studio I	4
DSN S 115	Design Collaborative Seminar	0.5
or DSN S 110	Design Exchange Seminar I	
DSN S 131	Design Representation	4
DSN S 183	Design Cultures	3
Total Credits		11.5

Design Communications: 3 cr.

ARCH 230	Design Communications I	3
Total Credits		3

Design: 48 cr.

ARCH 201	Architectural Design I	6
ARCH 202	Architectural Design II	6
ARCH 301	Architectural Design III	6
ARCH 302	Architectural Design IV	6
ARCH 401	Architectural Design V	6
12 credits:		12
DSN S 546	Interdisciplinary Design Studio	
ARCH 403	Architectural Design VII	6
Total Credits		48

Building Technologies: 21 cr.

ARCH 245	Building Science and Technology I	3
ARCH 341	Building Science and Technology II	5
ARCH 342	Building Science and Technology III	5
ARCH 343	Building Science and Technology IV	5
ARCH 445	Building Science and Technology V	3
Total Credits		21

Studies in History, Theory, and Culture: 18 cr.

ARCH 221	History of Architecture I	3
ARCH 222	History of Architecture II	3
ARCH 323	Theories of Architecture	3
Nine credits from approved SAC Option list.		9
Total Credits		18

Behavioral Studies/Practice: 6 cr.

ARCH 371	Human Behavior and Environmental Theory	3
ARCH 482	Professional Practice	3
Total Credits		6

Professional Options: 9 cr.

6 cr. 300-500 level Arch; 3 cr. from Arch, Art, Art H, ArtID, ArtGr, ArtIS, C R P, Des, Dsn S, or L A.

Electives: 21 cr.

6 cr. 300-500 level from department list.; 15 cr. from approved list. 2 cr. Kin or Ath allowed; 4 cr. AFAS, M S, or N S allowed; 9 cr. Arch allowed (no P/NP).

See also: A 5-year plan of study grid showing course template by semester.