

Architecture

The architect must combine an understanding of society, artistic skill, and technological knowledge to shape places and spaces that enrich human life. Not only do the physical requirements need to be satisfied, but also there must be beauty to engage the human spirit. All of this requires a creative thought process that can balance and organize needs that are quite varied in nature. Clear, responsible, sensitive, and comprehensive thinking is demanded of the architect who is to integrate a wide range of factors into a design that is meaningful. For this reason an architect's education must range from the practical aspects of building construction to the study of environmental, social, and aesthetic issues.

Central to the study of architecture is the sequence of architectural studio courses. Students are assigned architectural problems, which may be hypothetical, realistic, or theoretical, and find their own solutions to them with frequent individual consultations with instructors. As the student progresses, the projects become larger and more complex or the solution becomes more detailed. In this way, knowledge and experience acquired in other classes are brought to bear on the principal responsibility of the architect and the architecture student, that of shaping separate considerations into a single design.

Selective Admission

Admission into the first-year Pre-Architecture Program is open to any student enrolled at NDSU. Transfer students are evaluated on the basis of courses taken and grades received. Upon completion of the first year, a selected number of students are admitted to the second year of the program on the basis of institutional GPA attained and performance in first-year environmental design courses.

The Program

At the end of the third year of study, students may apply to the Master of Architecture degree program. The Bachelor of Science in Architecture is granted after the fourth year of study, and the professional Master of Architecture degree at the end of the fifth year of study. The program is fully accredited by the National Architectural Accrediting Board, and the M.Arch. degree is recognized by the National Council of Architectural Registration Boards as a professional degree.

The total number of credits required for the professional degree is 168, and the bachelor degree requirement is 136.

Accreditation

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.

Special Notice

Students who are admitted into the second year of the program will be required to purchase a laptop computer before the beginning of the spring semester. Information on type of computer, software, purchase, and financing arrangements will be distributed to admitted students prior to purchase.

Major Requirements

Major: Architecture

Degree Type: B.S.Arch

Required Degree Credits to Graduate: 136

General Education Requirements

First Year Experience (F):

UNIV 189	Skills For Academic Success (Students transferring in 24 or more credits do not need to take UNIV 189.)	1
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Communication (C):

ENGL 110	College Composition I	3
ENGL 120	College Composition II	3
ENGL 326 or ENGL 357	Writing in the Design Professions Visual Culture and Language	3
COMM 110	Fundamentals of Public Speaking	3

Quantitative Reasoning (R): Select from current general education list

Science & Technology (S):

PHYS 120 or PHYS 220	Fundamentals of Physics Physics for Designers	3
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Select from current general education list. A one-credit lab must be taken as a co-requisite with a general education science/technology course unless the course includes an embedded lab experience equivalent to a one-credit list.

Humanities & Fine Arts (A): No grades below 'C' allowed for these two courses.

ENVD 101	Introduction to Environmental Design	3
ARCH 321	History of Architecture I	3

Social & Behavioral Sciences (B):

PSYC 111	Introduction to Psychology	3
ANTH 111	Introduction to Anthropology	3

Wellness (W): Select from current general education list

Cultural Diversity (D):

ANTH 111	Introduction to Anthropology	3
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Global Perspectives (G):

ARCH 321	History of Architecture I	3
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Total Credits		40
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Major Requirements

No grades of 'D' allowed for Major Requirements

General Education Requirements 40

Architecture Requirements

ENVD 130	Drawing for Environmental Designers	3
ENVD 172	Environmental Design Fundamentals	4
ARCH 231	Architectural Drawing	3

ARCH 232	Design Technology	3
ARCH 233	Math for Designers	1
ARCH 271	Architectural Design I	6
ARCH 272	Architectural Design II	6
ARCH 322	History of Architecture II	3
ARCH 326	Design Theory	3
ARCH 341	Site Design for Architects	3
ARCH 344	Architectural Structures I	3
ARCH 351	Materials & Construction	4
ARCH 371	Architectural Design III	6
ARCH 372	Architectural Design IV	6
ARCH 443	Architectural Structures II	3
ARCH 450	Architectural Detailing	3
ARCH 453	Environmental Control Systems: Passive Principles	3
ARCH 454	Environmental Control System: Active System	3
ARCH 461	Urban Design	3
ARCH 471	Architectural Design V (capstone)	6
ARCH 472	Architectural Design VI	6
or ARCH 474	International Design Studio	
Elective Requirements		
SOC 110	Introduction to Sociology	3
PHIL 101	Introduction to Philosophy	3
Degree Electives: Potential of 9 credits to reach 136 (3 credits must be non-major).		9
Total Credits		136

Architecture - Graduate Level

ARCH 763	Programming/Thesis Prep	3
ARCH 781	Professional Practice	3
ARCH 771	Advanced Architectural Design	6
ARCH 772	Design Thesis	8
Select 12 credits from the following:		12
ARCH 721	Non-Western Architectural Traditions	
ARCH 722	Urbanism	
ARCH 723	Historic Preservation	
ARCH 724	Architectural Technology	
ARCH 725	Architecture or the Recent Past	
ARCH 726	Current Architectural Theory	
ARCH 727	Vernacular Architectural Traditions	
ARCH 728	Sociocultural Issues	
ARCH 789	Professional Topics in Architecture	
Total Credits		32

Degree Requirements and Notes

- NO GRADES OF 'D' ALLOWED FOR ANY MAJOR OR NON-MAJOR COURSE.
- Courses listed on this curriculum guide will lead to both a Bachelor of Science in Architecture degree and to an Masters of Architecture degree.
- Grades in any two consecutive undergraduate studio courses (ARCH 271, 272, 371, 372, 471, 472) must average 2.5 or better.
- A student must complete at least 60 semester credits of professional level course work in his/her program while in residence and enrolled

in the college. Students transferring into the college from programs with professional accreditation are exempt from this residency requirement but are subject to the residency requirement of NDSU.