# 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 an eight-year, three-year, or two-year term of accreditation, depending on the extent of its conformance with established educational standards.

Doctor of Architecture and Master of Architecture degree programs may require a preprofessional undergraduate degree in architecture for admission. However, the preprofessional 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 |
| **Communication (C):** | | |
| ENGL 110 | College Composition I | 3 |
| ENGL 120 | College Composition II | 3 |
| ENGL 326 | Writing in the Design Professions | 3 |
| or ENGL 357 | Visual Culture and Language | |
| COMM 110 | Fundamentals of Public Speaking | 3 |
| **Quantitative Reasoning (R): Select from current general education list** | | 3 |
| **Science & Technology (S):** | | |

| | | |
|---|---|---|
| PHYS 120 | Fundamentals of Physics | 3 |
| or PHYS 220 | Physics for Designers | |
| 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. | | 7 |
| **Humanities & Fine Arts (A): No grades below 'C' allowed for these two courses.** | | |
| ENVD 101 | Introduction to Environmental Design | 3 |
| ARCH 321 | History and Theory 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** | | 2 |
| **Cultural Diversity (D):** | | |
| ANTH 111 | Introduction to Anthropology | 3 |
| **Global Perspectives (G):** | | |
| ARCH 321 | History and Theory of Architecture I | 3 |
| **Total Credits** | | **40** |

## 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 323 | History and Theory of Architecture III | 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: (May be repeated, except for identical course offering) | | 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 MAJOR ELECTIVE REQUIREMENTS.
- Courses listed on this curriculum guide will lead to both a Bachelor of Science in Architecture degree and to an Masters of Architecture degree.
- If a student receives a grade of "D" or "F" in studio, he/she will be required to repeat the studio class the following year, before advancing to the next studio course.  If a student receives two consecutive "C" grades in studio, they will not be allowed to advance to the next studio level without retaking one of the previous studios.
- 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.

| First Year | | | |
|---|---|---|---|
| **Fall** | **Credits** | **Spring** | **Credits** |
| ENVD 101 | 3 | ENVD 172 or 130 | 4-3 |
| ENVD 130 or 172 | 3-4 | ENGL 120 | 3 |
| ENGL 110 | 3 | COMM 110 | 3 |
| ARCH 321 | 3 | ARCH 322 | 3 |
| PHIL 101 | 3 | Quantitative Reasoning Requirement | 3 |
| UNIV 189 | 1 | Wellness Requirement | 2 |
| | **16-17** | | **18-17** |
| **Second Year** | | | |
| **Fall** | **Credits** | **Spring** | **Credits** |
| ARCH 271 | 6 | ARCH 272 | 6 |
| ARCH 231 | 3 | ARCH 232 | 3 |
| ARCH 233 | 1 | ARCH 344 | 3 |
| Science/Tech General Eduction Requirement | 3 | PSYC 111 | 3 |
| ARCH 323 | 3 | PHYS 120 or 220 | 3 |
| | **16** | | **18** |
| **Third Year** | | | |
| **Fall** | **Credits** | **Spring** | **Credits** |
| ARCH 371 | 6 | ARCH 372 | 6 |
| ARCH 341 | 3 | ARCH 450 | 3 |
| ARCH 351 | 4 | ARCH 454 | 3 |
| ARCH 453 | 3 | ARCH 461 | 3 |

| | Credits | | Credits |
|---|---|---|---|
| Science/Tech General Eduction Lab Requirement | 1 | ENGL 326 or 357 | 3 |
| | **17** | | **18** |
| **Fourth Year** | | | |
| **Fall** | **Credits** | **Spring** | **Credits** |
| ARCH 471 | 6 | ARCH 472, 474, or 475 | 6 |
| ARCH 443 | 3 | SOC 110 | 3 |
| ANTH 111 | 3 | Elective | 3 |
| Science/Tech General Education Requirement | 3 | Elective | 3 |
| Elective | 3 | | |
| | **18** | | **15** |

**Total Credits: 136**