## Architecture (ARCH)

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<th>Course Code</th>
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<td>ARCH 372</td>
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ARCH 379. Global Seminar. 1-6 Credits.
NDSU instructed experience or field study in a foreign country. Conducted in English for residence credit. Pre-requisite: Prior approval by International Student and Study Abroad Services and major department. May be repeated. Standard Grading.

ARCH 391. Seminar. 1-3 Credits.

ARCH 392. Global Practicum: Study Abroad. 1-15 Credits.
Pre-Arranged study at accredited foreign institutions (study abroad), domestic institutions (National Student Exchange) or on approved study abroad programs. Pre-requisite: Sophomore standing and prior approval by International Student and Study Abroad Services and major department. Graded 'P' or 'F' (Undergraduate), or 'S' or 'U' (Graduate).

ARCH 394. Individual Study. 1-5 Credits.

ARCH 397. Fe/Coop Ed/Internship. 1-4 Credits.

ARCH 399. Special Topics. 1-5 Credits.

ARCH 443. Architectural Structures II. 3 Credits.
Overview of the principles of statics and mechanics of materials and structural concepts relative to building members and frames. Prereq: ARCH 344, ARCH 372.

ARCH 450. Architectural Detailing. 3 Credits.

ARCH 453. Environmental Control Systems: Passive Principles. 3 Credits.
Study of architectural design related to thermal comfort, climate, passive solar systems, daylighting, acoustics, and other environmental concerns. Prereq: ARCH 272.

ARCH 454. Environmental Control System: Active System. 3 Credits.
Study of the basic fundamentals of illumination and basic power generation, distribution and service; heating, ventilation, and air-conditioning systems; plumbing systems; and acoustics as they relate to building design. Prereq: ARCH 371, 453.

ARCH 461. Urban Design. 3 Credits.
Study of urban form and urban theory, development, and processes in a historic and contemporary context. Prereq: ARCH 371 or LA 371.

ARCH 471. Architectural Design V. 6 Credits.
Studio courses involving the complex organization of architectural spaces and forms in an urban context. Prereq: ARCH 372.

ARCH 472. Architectural Design VI. 6 Credits.
Studio courses involving the complex organization of architectural spaces and forms in an urban context. Prereq: ARCH 471.

ARCH 474. International Design Studio. 6 Credits.
Comprehensive design studio experience in advanced architectural studies to be conducted in culturally diverse, international locations. Prereq: ARCH 471.

ARCH 491. Seminar. 1-5 Credits.

ARCH 492. Global Practicum: Study Abroad. 1-15 Credits.
Pre-Arranged study at accredited foreign institutions (study abroad), domestic institutions (National Student Exchange) or on approved study abroad programs. Pre-requisite: Sophomore standing and prior approval by International Student and Study Abroad Services and major department. Graded 'P' or 'F' (Undergraduate), or 'S' or 'U' (Graduate).

ARCH 493. Undergraduate Research. 1-5 Credits.

ARCH 494. Individual Study. 1-5 Credits.

ARCH 496. Field Experience. 1-15 Credits.

ARCH 497. FE/Coop Ed/Internship. 1-4 Credits.

ARCH 499. Special Topics. 1-5 Credits.

ARCH 721. Non-Western Architectural Traditions. 3 Credits.
Advanced course on the investigation of design methods and building traditions of non-Western cultures and diverse geographic regions. May be repeated.

ARCH 722. Urbanism. 3 Credits.
Advanced course to explore in-depth aspects of urban design. May be repeated.

ARCH 723. Historic Preservation. 3 Credits.
Advanced course to explore the philosophy and techniques of preserving historic buildings. May be repeated.

ARCH 724. Architectural Technology. 3 Credits.
Advanced course to explore the historical and theoretical underpinnings of architectural technology. May be repeated.
ARCH 725. Architecture or the Recent Past. 3 Credits.
Advanced course to explore the major architectural movements and personalities since the mid-20th century. May be repeated.

ARCH 726. Current Architectural Theory. 3 Credits.
Advanced course focused on current issues and the work and design theory of leading architectural practitioners around the world. May be repeated.

ARCH 727. Vernacular Architectural Traditions. 3 Credits.
Advanced course to explore vernacular architectural traditions in North America and elsewhere. May be repeated.

ARCH 728. Sociocultural Issues. 3 Credits.
Advanced course focused on the social issues and movements that have influenced environmental design. May be repeated.

ARCH 763. Thesis Research. 3 Credits.
An introduction to research methodologies and the research required to complete a design thesis in a first professional degree program in Architecture at the graduate level. Completion of a Thesis Proposal and a Thesis Research document in preparation for the Design Thesis Studio to follow. Prereq: ARCH 472.

ARCH 771. Advanced Architectural Design. 6 Credits.
Advanced studio course addressing complex design problems requiring increased self-direction.

ARCH 772. Design Thesis. 8 Credits.
Advanced studio course devoted to the execution of a comprehensive design thesis project, from schematic design through design development, presentation, and review. Prereq: ARCH 663, ARCH 771.

ARCH 781. Professional Practice. 3 Credits.
Study of contemporary architectural practice covering professional development, firm organization, and project management within the context of the ethical, legal, and regulatory environment. Cross-listed with LA 581.

ARCH 789. Professional Topics in Architecture. 3 Credits.
Various topics related to theoretical or methodological aspects of architecture as a professional discipline. May be repeated.

ARCH 790. Graduate Seminar. 1-3 Credits.

ARCH 793. Individual Study. 1-5 Credits.

ARCH 795. Field Experience. 1-10 Credits.