Department of Architecture
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Faculty

Professors
- Ann Borst
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- John Ellis
- Mark A. Klopfer
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- Mark Pasnik

Associate Professors
- Carol Burna
- Charles J. Cimino
- Lora Kim
- Antonio Furgiuele
- Kelly Hutzell
- Troy Peters
- Ann Pitt
- Robert Trumbour

Assistant Professors
- Jennifer Lee Michaliszyn
- Anne-Catrin Schultz, Ph.D.
- Ingird Strong

Study Abroad
- Rolf Backmann, Director (Germany)

Department Mission Statement
The Architecture program at Wentworth embraces the art of making. We are committed to the traditional role of the practitioner and master builder: to design and construct buildings that contribute to society and enrich people’s lives. To that end, the curriculum promotes research and design based on the linkages between conceptual frameworks and the tangible nature of architecture. Through rigorous investigations into the history, theory and material culture of the built environment, students engage design as a fusion of the art and science of building.
Degree Programs
The department offers four separate degree programs:

- The four-year, pre-professional Bachelor of Science in Architecture.
- The one-year, Master of Architecture professional degree.
- The two-year, Master of Architecture professional degree for external candidates who have a four-year, pre-professional degree from another NAAB-based degree program.
- The three-year, Master of Architecture professional degree for external candidates who have a four-year Bachelor of Arts or Bachelor of Science in an unrelated discipline.

In addition, the department offers a Minor in Architectural Studies open to students in all other departments at Wentworth.

Undergraduate Studies – Architecture
Leading to a Bachelor of Science in Architecture degree (B.S.Arch)

Program Description
The Bachelor of Science in Architecture (B.S.Arch) program’s rigorous course of study centers on the design studio, where students work closely with faculty in their explorations of design and design methods. Associated courses in history, theory, technology, and professional practice are often closely related to design studio problems. Student learning is enhanced by two semesters of cooperative work experience as well as study abroad options.

All entering freshmen are admitted to the four-year B.S.Arch program. During the junior year students focus their educational interests by choosing one of the three concentrations outlined below.

Upon successful completion of the B.S.Arch curriculum, Wentworth students may apply to the one-year M.Arch program at Wentworth. They also may elect to continue their architectural studies at another institution or gain professional experience. Every student who applies to the M.Arch program must submit an application. It is important to note that if a student’s GPA is 3.2 or higher for all undergraduate architecture courses, the student is automatically admitted into the Wentworth M.Arch program. If the GPA is below 3.2 then the student must apply and submit a portfolio to the M.Arch program and admission is based on a review of that application.

B.S.Arch Program Concentrations
The undergraduate program in architecture offers three areas of concentration, which allow students to pursue a particular focus within their study of architecture. The core architectural education is equivalent across concentrations, and all achieve the same learning outcomes. All students are required to select a concentration at the end of their first semester in junior year.

Adaptive Interventions
This concentration investigates architecture as a discipline in which the primary focus is on interventions into contingent existing conditions. Adaptive re-use, regenerative urbanism, sustainability, critical regionalism and related strategies are addressed at scales ranging from the individual building to the urban environment.
Emerging Technologies
This concentration explores the material nature of architecture, the craft of building, and the role of emerging technologies as they inform the design process. It emphasizes the broad architectural and cultural implications of technology, and advances an ethos of research through making.

Urbanism
This concentration focuses on the influence of the arts and humanities, ecology and landscape, economics and politics, and society on design at the urban scale. It challenges students to explore the representation of complex social, cultural and ecological systems as a form of research and offers students the skills and insights necessary to collaborate across disciplinary boundaries and to provide leadership in reshaping our cities.

Cooperative Work Experience
The Architecture Department has a substantial and well-established cooperative education component embedded in the curriculum. B.S.Arch students spend two semesters working in an architectural or allied design professional office. The department collaborates with the Institute’s Center for Cooperative Education and Career Services to reinforce the learning content of these placements. Work experience may be applied to the Architectural Experience Program (AXP)—a required step toward professional licensure.

Study Abroad Programs
The Department of Architecture offers semester-long study abroad options in Berlin and Barcelona/Girona for students in the B.S.Arch program. These programs are led by resident architects/Wentworth faculty members. During their time abroad, students work closely with local design and planning professionals as well as with regionally based students and community groups. Intensive travel–oriented coursework gives students an additional cultural perspective. The curriculum is fully aligned with required courses in Boston, allowing normal progress toward graduation. The study abroad program accepts a limited number of students by application and are selective.

Degree Details
Total credits for degree: 135

This is a four-year program that begins in the fall of the student’s first year and is planned to end in the spring semester of the fourth year.

Starting in the second semester of their junior year, students select one of three concentrations – Adaptive Interventions, Emerging Technologies, or Urbanism – which is the focus of selected courses through their senior year.

Special Grade Requirement
The Architecture Department has a special grade requirement that applies to all design studio courses from the sophomore year onward. Students in the B.S.Arch degree program must comply with the following design studio grade requirement:

Final grade must be C or better if the final grade in the previous design studio is less than a C.
Students who receive a final grade below C for two consecutive semesters are not permitted to continue in the program until they successfully repeat the second studio for which they received a sub-standard grade.

In the first three semesters, students get a broad introduction to the field of architecture, which serves as the foundation for the curriculum:

**Freshman Year, Fall Semester (total credits 14)**
- ARCH1000, Studio 01
- MATH1000, College Mathematics I
- ENGLISH, English Sequence, See ENGL/HSS note below *

**Freshman Year, Spring Semester (total credits 14)**
- ARCH1500, Studio 02
- MATH1500, Precalculus
- ENGLISH, English Sequence, See ENGL/HSS note below *

**Sophomore Year, Fall Semester (total credits 18)**
- ARCH2000, Studio 03
- ARCH2100, History/Theory 01
- ARCH2200, Technology 01
- ARCH2222, AXP Registration
- HSS ELECTIVE, See ENGL/HSS note below *

**Sophomore Year, Spring Semester**
- COOP3500, Co-op Work Term

In the following three semesters, students gain knowledge in integrative design:

**Sophomore Year, Summer Semester (total credits 18)**
- ARCH2500, Studio 04
- ARCH2600, History/Theory 02
- ARCH2700, Technology 02
- PHYS1000, College Physics I

**Junior Year, Fall Semester (total credits 17)**
- ARCH3000, Studio 05
- ARCH3200, Technology 03
- ARCH3400, Structures 01
- HSS ELECTIVE, See ENGL/HSS note below *

In the fall semester of the junior year, students choose one of three concentrations. In the spring of their third year, students will take their first concentration seminar, designed to introduce them to the
history and theory of their chosen concentration. This seminar will be followed in the fourth year with another concentration seminar as well as a concentration-specific studio.

Architecture - Urbanism Concentration

Junior Year, Spring Semester (total credits 17)

- ARCH3500, Studio 06
- ARCH3700, Concentration Studies
- ARCH3900, Structures 02
  HSS ELECTIVE, See ENGL/HSS note below *

Junior Year, Summer Semester

- COPP4500, Co-op Work Term II

Senior Year, Fall Semester (total credits 19)

- ARCH4000, Studio 07
- ARCH3700, Concentration Studies
- ELECTIVE, General Elective
- HSS ELECTIVE, See ENGL/HSS note below *

Senior Year, Spring Semester (total credits 18)

- ARCH5500, Studio 08
- ELECTIVE, Architecture
- ELECTIVE, Architecture
- HSS ELECTIVE, See ENGL/HSS note below *

Architecture - Emerging Technologies Concentration

Junior Year, Spring Semester (total credits 17)

- ARCH3500, Studio 06
- ARCH3700, Concentration Studies
- ARCH3900, Structures 02
- HSS ELECTIVE, See ENGL/HSS note below *

Junior Year, Summer Semester

- COPP4500, Co-op Work Term II

Senior Year, Fall Semester (total credits 19)

- ARCH4025, Studio 07
- ARCH3700, Concentration Studies
- ELECTIVE, General Elective
- HSS ELECTIVE, See ENGL/HSS note below *

Senior Year, Spring Semester (total credits 18)

- ARCH5500, Studio 08
• ELECTIVE, Architecture
• ELECTIVE, Architecture
• HSS ELECTIVE, See ENGL/HSS note below ***

Architecture – Adaptive Interventions Concentration

Junior Year, Spring Semester (total credits 17)

• ARCH3500, Studio 06
• ARCH3700, Concentration Studies
• ARCH3900, Structures 02
• HSS ELECTIVE, See ENGL/HSS note below *

Junior Year, Summer Semester

• COPP4500, Co-op Work Term II

Senior Year, Fall Semester (total credits 19)

• ARCH4050, Studio 07
• ARCH3700, Concentration Studies
• ELECTIVE, General Elective
• HSS ELECTIVE, See ENGL/HSS note below *

Senior Year, Spring Semester (total credits 18)

• ARCH5500, Studio 08
• ELECTIVE, Architecture
• ELECTIVE, Architecture
• HSS ELECTIVE, See ENGL/HSS note below *

ENGL/HSS Note:
Day program students are required to complete:

• At least one course in Humanities
• At least one course in the Social Sciences
• The remaining courses from either the Humanities or Social Sciences category.

Students with a three English course sequence may use the third English course to satisfy a Humanities requirement.

Graduate Studies - Architecture
Leading to a Master of Architecture degree (M.Arch)

While there are many places to study architecture, Boston’s rich tapestry of contemporary and historic buildings make it one of the best cities in the country to be a graduate student of architecture. Students at Wentworth experience a practice-based education in design, fabrication, and building, use the advanced digital tools found in leading edge architectural firms, and conceive of imaginative solutions that address real-world challenges and opportunities.
At Wentworth, our graduate curriculum promotes design investigation and research based on the tangible nature of architecture. Our students apply critical thinking skills in design research and have the freedom to explore their interests and express their creativity.

**M.Arch Degree Program Application Process**

The department offers three Master of Architecture degree programs:

- The one-year, Master of Architecture professional degree for internal candidates who have a four-year Bachelor of Science in Architecture from Wentworth
- The two-year, Master of Architecture professional degree for external candidates who have a four-year, pre-professional degree from another NAAB-based degree program.
- The three-year, Master of Architecture professional degree for external candidates who have a four-year Bachelor of Arts or Bachelor of Science in an unrelated discipline.

All applicants are required to submit an application for the M.Arch degree program (see ‘Note’ below). For further details on the program and admissions requirements, please refer to the departmental website at https://www.wit.edu/college-architecture-design-construction-management-departments/department-architecture/architecture-degree-programs/master-architecture.

**Note:** Students who achieve a minimum departmental GPA of 3.20 (non-elective ARCH courses from first through third years only) in the B.S.Arch program at Wentworth automatically qualify for acceptance into the M.Arch degree program for the following year. Students meeting this standard still must submit an application and an official transcript.

**Degree Details**

Total credits for degree: 36 (one-year) or 72 (two-year), or 108 (three-year)

This is a program that begins in the fall of the student’s first year and is planned to end in the spring semester of the first, second, or third year.

Students in the M.Arch program must maintain a 3.0 GPA to be in good academic standing.

**Master of Architecture (One-Year)**

**First Year, Fall Semester (total credits 18)**

- ARCH9000, Studio 09: Special Topics
- ARCH9200, Thesis Preparation I
- ARCH9300, Thesis Preparation II
- ELECTIVE, Architecture

**First Year, Spring Semester (total credits 18)**

- ARCH9500, Studio 10: Thesis
- ARCH9600, Professional Perspectives
- ARCH9700, Advanced Topics
- ELECTIVE, Architecture

**Master of Architecture (Two-Year)**

**First Year, Fall Semester (total credits 18)**
• ARCH8000, Advanced Graduate Studio 01
• ARCH8250, Advanced Technology & Materials
• ARCH8300, Applied Research & Design 01
• ARCH8400, Structures 01 OR
• ARCH8750, Concentration Studies OR
• ELECTIVE, Architecture

First Year, Spring Semester (total credits 18)

• ARCH8500, Advanced Graduate Studio 02
• ARCH8650, Fabrication Methods
• ARCH8700, Applied Research & Design 02
• ARCH8750, Concentration Studies OR
• ARCH8800, Structures 02 OR
• ELECTIVE, Architecture

Second Year, Fall Semester (total credits 18)

• ARCH9000, Studio 09: Special Topics
• ARCH9200, Thesis Preparation I
• ARCH9300, Thesis Preparation II
• ELECTIVE, Architecture

Second Year, Spring Semester (total credits 18)

• ARCH9500, Studio 10: Thesis
• ARCH9600, Professional Perspectives
• ARCH9700, Advanced Topics
• ELECTIVE, Architecture

Master of Architecture (Three-Year)
First Year, Fall Semester (total credits 18)

• ARCH7000, Graduate Foundation Studio 01
• ARCH7250, Graduate History Lecture.
• ARCH7300, Technology 01
• ARCH7350, 2D/3D Media Processes OR
• ARCH8750, Concentration Studies

First Year, Spring Semester (total credits 18)

• ARCH7500, Graduate Foundation Studio 02
• ARCH7550, History/Theory Seminar
• ARCH7600, Technology 02
• ARCH8750, Concentration Studies OR
• ELECTIVE, Architecture
Second Year, Fall Semester (total credits 18)

- ARCH8000, Advanced Graduate Studio 01
- ARCH8250, Advanced Technology & Materials
- ARCH8300, Applied Research & Design 01
- ARCH8400, Structures 01 OR
- ARCH8750, Concentration Studies OR
- ELECTIVE, Architecture

Second Year, Spring Semester (total credits 18)

- ARCH8500, Advanced Graduate Studio 02
- ARCH8650, Fabrication Methods
- ARCH8700, Applied Research & Design 02
- ARCH8750, Concentration Studies OR
- ARCH8800, Structures 02 OR
- ELECTIVE, Architecture

Third Year, Fall Semester (total credits 18)

- ARCH9000, Studio 09: Special Topics
- ARCH9200, Thesis Preparation I
- ARCH9300, Thesis Preparation II
- ELECTIVE, Architecture

Third Year, Spring Semester (total credits 18)

- ARCH9500, Studio 10: Thesis
- ARCH9600, Professional Perspectives
- ARCH9700, Advanced Topics
- ELECTIVE, Architecture

Architecture Electives

Students are encouraged to pursue breadth, as well as depth in their architectural studies. The following list is indicative of the department’s elective course offerings in recent years:

- ARCH3800, 2D + 3D Media Process
- ARCH3800, Advanced Hand Drawing for Architecture
- ARCH3800, Architecture in the Information Age
- ARCH3800, Architecture, Place and the Social Contract
- ARCH3800, Axonography
- ARCH3800, Flesching Buildings
- ARCH3800, BIM in Sustainable Design
- ARCH3800, Building Community
- ARCH3800, Cinema and the Contemporary Asian City
- ARCH3800, Collage and Architecture
- ARCH3800, Color Relationships
• ARCH3800, Construction Documents using Revit Architecture
• ARCH3800, Contemporary Approaches to the Public Realm
• ARCH3800, Design Entrepreneurship
• ARCH3800, Design Methods
• ARCH3800, Dynamic Tectonics – Between Structure and Story
• ARCH3800, Inquiry into Creative Spatial Design and Computation
• ARCH3800, Kinetic Predictive Facades
• ARCH3800, Material Readings
• ARCH3800, Modernism and Contemporary Trends in House and Garden
• ARCH3800, Negotiation in the Design of Cities
• ARCH3800, Net Zero Energy Housing
• ARCH3800, Project Planning
• ARCH3800, Prototyping Architecture
• ARCH3800, Responsive Architecture
• ARCH3800, Sculpt Model
• ARCH3800, Sketching the Urban and Natural Landscape in Pen, Pencil, and Watercolor
• ARCH3800, Theories of Urban Design
• ARCH3800, The Pritzker Prize
• ARCH3800, Unfolding the Plane
• ARCH3800, Understand Design Composition through Drawing & Painting
• ARCH3800, Visualization Through Hand Drawing
• ARCH3850, Animated Processes
• ARCH3850, ARTitecture
• ARCH3850, Building the City of the Future
• ARCH3850, City of Skins
• ARCH3850, Experimental Structures
• ARCH3850, Sustainable Urban Architecture

**Minor in Architectural Studies**

The Department of Architecture offers a minor in Architectural Studies open to students enrolled in all other departments at Wentworth. The course sequence includes two classes in architectural history and three with a focus on technology. The history courses introduce students to the masterpieces of architecture across several millennia through lectures and assignments that concentrate on analytical sketching and critical writing. In the technology courses, students focus on site design concepts and environmental building strategies. They study methods for achieving visual, thermal, and acoustical comfort in buildings using climate, form, orientation, materials, and structure. The minor in Architectural Studies exposes students to the fundamentals and complexities of the built environment, an area of expertise relevant for many professions and careers.

To earn the minor, the student must complete the following five courses in this order:

• ARCH2100, History / Theory 01
• ARCH2200, Technology 01
• ARCH2600, History / Theory 02
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- ARCH2700, Technology 02
- ARCH3200, Technology 03

Total credits for minor: 20