Doctor of Philosophy in Architecture

DEGREE REQUIREMENTS—84 CREDITS MINIMUM

*Individual requirements are determined by the transcript evaluation.*

Students must complete a series of common core requirements that develop a knowledge base and skills for conducting original research within an area of concentration. Requirements for the area of concentration courses are designed to provide both depth and breadth of knowledge in an area of study relevant to sustainable design, and to draw on the frameworks and methodologies of related disciplines that support the student’s dissertation research. Over the course of at least three years, the minimum course requirement is 66 credits with an additional 18 credits for dissertation work (a total minimum of 84 graduate-level credits).

**Research and Investigation** (24 credits minimum)
- ARCH 601 Research (4–8)
- ARCH 620 Research Methods in Sustainable Design (4)
- PPPM 656 Quantitative Methods (or equivalent) (4)
- ARCH 678 Advanced Research in Sustainable Design (4)
- ARCH 695 Advanced Dissertation Proposal Development (4)

**Primary Focus Area** (22 credits minimum)
- ARCH 617 Built Environment Design and Theory (3)
- ARCH 633 History of Sustainable Design (4)
- ARCH 608 Colloquium (1)
- ARCH 500+ Advanced electives (13+ credits)

**Dissertation** (18 credits minimum)
- ARCH 603 Dissertation

**Secondary Focus Area** (16 credits minimum)
- Selected nonarchitecture courses in other departments

**Supervised College Teaching** (4 credits minimum)
- ARCH 602 Supervised College Teaching
- ARCH 661 Teaching Technical Subjects in Architecture

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<th>YEAR 1</th>
<th>FALL</th>
<th>WINTER</th>
<th>SPRING</th>
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<td></td>
<td>ARCH 620 Research Methods in Sustainable Design 4</td>
<td>ARCH 601 Research 4</td>
<td>ARCH 678 Advanced Research in Sustainable Design 4</td>
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<td></td>
<td>ARCH 661 Teaching Technical Subjects in Architecture 2</td>
<td>Elective (primary focus area) 3</td>
<td>ARCH 605 Reading and Conference: Comprehensive Exams 8</td>
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<td>Total Credits 10</td>
<td>Elective (secondary focus area) 4</td>
<td>ARCH 608 Colloquium 1</td>
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<td>YEAR 2</td>
<td>ARCH 601 Research 4</td>
<td>ARCH 602 Supervised College Teaching 2</td>
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<td>Elective (primary focus area) 3</td>
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<td>Statistical methods course 4</td>
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<td>Abstract Due</td>
<td>Prospectus Due 10</td>
<td>Advance to Candidacy 9</td>
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</tbody>
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YEAR 3
- ARCH 603 Dissertation
- ARCH 603 Dissertation
- ARCH 603 Dissertation

YEAR 4
- ARCH 603 Dissertation
- ARCH 603 Dissertation
- ARCH 603 Dissertation

YEAR 5
- ARCH 603 Dissertation
- ARCH 603 Dissertation
- ARCH 603 Dissertation
RESEARCH AND INVESTIGATION (24 CREDITS)

To prepare students for performing rigorous and original research, a series of core courses provide a foundation in the culture and conduct of research. The primary difference between master’s and doctoral methods courses is that the courses are open to advanced master’s students for fewer credits. Master’s students would receive an introduction to a broad application of qualitative research and quantitative methods with assignments geared toward an “understanding” level. For PhD students, courses include analysis and evaluation for collecting data (phenomenology, case-study research, critical reasoning), critical considerations on measurement, evaluation, and feedback loops, with assignments geared toward an “ability” level.

ARCH 601. Research. 4–8 Credits.
Involves working on an active research project conceived and directed by a faculty member. The mentorship through participation in a faculty member’s current research is intended to help students gain experience in the identification of researchable questions, conceptually constructing research postulates and designs, and executing productive research. The time commitment by the instructor to the student is balanced by the contributions the student can make to ongoing research.

ARCH 620. Research Methods in Sustainable Design. 4 Credits.
Focuses on research issues and an overview of methods common to environmental design. Assignments relate to the framing of researchable questions.

ARCH 678. Advanced Research Methods in Sustainable Design. 4 Credits.
Focuses on qualitative and quantitative methods applicable to the design of sustainable buildings and communities. Emphasizes more specific qualitative and quantitative methodologies, while students continue to explore a topic and frame a researchable problem through literature reviews and proposal development. The supervising faculty member will spend one to two extra hours per week with the doctoral students. The course will also be used to incorporate further assignments that deepen the doctoral student’s knowledge of targeted research topics through comprehensive reviews of, respectively, the literature and research methods related to their topic or question of interest.

ARCH 695. Advanced Dissertation Proposal Development. 4 Credits.
Focuses on the preparation and presentation of a research program and dissertation proposal. Building on initial courses in research methods and content, this course has as its object the writing and revision of a dissertation proposal that meets departmental formats and requirements.

SECONDARY (OUTSIDE) FOCUS AREA (16 CREDITS)

These courses are selected in consultation with the faculty advisor to provide sufficient depth in the student’s area of research. The courses are typically taken outside of architecture and are intended to develop knowledge of a second discipline that supports the student’s research. Examples of outside focus areas include anthropology, architectural history, biology, business, ecology, economics, education, environmental studies, historic preservation, landscape architecture, planning, planning theory, transportation planning, urban geography, and urban sociology.

SUPERVISED COLLEGE TEACHING (4 CREDITS MINIMUM)

Courses within the School of Architecture and Allied Arts

ARCH 602 Supervised College Teaching
ARCH 661 Teaching Technical Subjects in Architecture
ARCH 690 Teaching Technology in Architectural Design