ARCHITECTURE

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MEMBERS OF THE SCHOOL OF ARCHITECTURE TEACHING IN YALE COLLEGE

Professors D. Michelle Addington, Turner Brooks (Adjunct), Keller Easterling, Alexander Garvin (Adjunct), Steven Harris (Adjunct), Dolores Hayden, Alan Plattus, Alexander Purves (Emeritus)

Associate Professor Eeva-Liisa Pelkonen

Assistant Professors Sunil Bald (Adjunct), Bimal Mendis (Adjunct), Kyoung Sun Moon, W. Todd Reisz (Visiting), Elihu Rubin

Lecturers Victor Agran, Karla Britton, Ariane Lourie Harrison, Daniel Sherer

Critics Marta Justo Caldeira, Andrei Harwell, Adam Hopfner, Joyce Hsiang, Timothy Newton

Application to the Architecture major Yale College students must apply to enter the major during the spring term of their sophomore year, after taking ARCH 150, 154, and 249. An application to the major must be submitted to the office of the director of undergraduate studies no later than 4 p.m. on March 30, 2016, in 328 Rudolph (third floor). All applications are reviewed by a faculty committee. Applications must include the following information: name, address, telephone number, courses related to architecture already taken, a statement of purpose, and a writing sample from Yale College. Portfolios representative of course work for ARCH 150, 154, and 249 must also be submitted for review as part of the application process by May 2, 2016. Applicants must stipulate their first, second, and third choices for the three concentrations in the major. The concentrations, described below, are Design; History, Theory, and Criticism; and Urban Studies. Although qualified students and students who have fulfilled the prerequisites may be admitted into the Architecture major, they will not necessarily be admitted to their first-choice concentration. Applicants will be notified in writing regarding acceptance to the major by May 31, 2016. The major is usually limited to twenty students in the junior year and twenty students in the senior year, with a maximum of sixteen students in the design concentration for each year. Students have an opportunity to petition the director of undergraduate studies at the end of either the fall or spring term of their junior year if they wish to change concentrations. The director of undergraduate studies will notify students of the result of such a petition. Based on a student’s performance in required courses, the director of undergraduate studies may also recommend a change in concentration.

Introduction to architecture Introductory courses are ARCH 150, 154, and 249. They are open to all Yale College students except freshmen, and are required for those interested in the Architecture major prior to application. Freshmen may consider courses such as a freshman seminar, ARCH 260, 261, or STCY 176.

The standard major The purpose of the undergraduate major is to include the study of architecture within a comprehensive liberal arts education, drawing from the broader academic and professional environment of the Yale School of Architecture. The curriculum includes work in design, in history, theory, and criticism of architecture, and in urban studies, and leads to a bachelor of arts degree with a major in Architecture. As a liberal arts major in Yale College, it is not an accredited professional degree program. For accredited professional degree programs, refer to the requirements of the National Architectural Accrediting Board (http://www.naab.org) (NAAB).

The Design concentration introduces complex processes involved in solving spatial and programmatic problems. Creative work is grounded in the study of history and culture, and in the analysis of social conditions influencing architecture. Design studios provide a forum for production and discourse. Studio projects address issues of architectural form, space, composition, site, tectonics, and program.

The History, Theory, and Criticism concentration is intended to establish a broad historical and intellectual framework for the study of architecture. An interdisciplinary approach is encouraged through additional courses taken in various fields of humanities and social sciences. Normally these interdisciplinary courses address subjects closely linked to architectural history, theory, and criticism. Such courses may include archaeology, history of religion, aesthetics, philosophy, or visual culture. Permission of the director of undergraduate studies is required if the courses fall outside the specified course of studies. During their senior year students complete a written senior essay on a topic approved by the faculty.

The Urban Studies concentration encourages a broad, interdisciplinary investigation of the complex forces that shape the urban physical environment. The sequence of courses culminates in a senior essay that builds on course work, and either develops analysis and planning proposals for a specific site or furthers an individual research agenda.

Requirements of the major Students majoring in Architecture are required to take fifteen course credits. Majors are expected to take three prerequisites in their sophomore year and to complete a core of four courses, for five course credits, by the end of their junior year. They must also base their studies in one of three areas of concentration: Design; History, Theory, and Criticism; or Urban Studies.

The courses for all concentrations include three prerequisites: ARCH 150, 154, and 249. The core of four courses required for all concentrations includes the studio courses ARCH 250 and 251, to be taken during the junior year after the student is accepted into the major, and the history of architecture surveys ARCH 260 and 261, to be completed by the end of the junior year. The electives are categorized under four broad subject areas: history and theory of architecture, urbanism and landscape, materials and technology, and structures and computation.
For the Design concentration, the following additional courses are required:

1. One elective in history and theory of architecture chosen from ARCH 341, 348, 431, or other relevant course in History of Art (http://catalog.yale.edu/ycps/subjects-of-instruction/history-of-art) approved by the director of undergraduate studies

2. One elective in urbanism and landscape chosen from ARCH 340, 344, 345, 347, 348, 351, STCY 176, or other relevant course in American Studies (http://catalog.yale.edu/ycps/subjects-of-instruction/american-studies), Ethics, Politics, and Economics (http://catalog.yale.edu/ycps/subjects-of-instruction/ethics-politics-economics), Environmental Studies (http://catalog.yale.edu/ycps/subjects-of-instruction/environmental-studies), or Political Science (http://catalog.yale.edu/ycps/subjects-of-instruction/political-science) approved by the director of undergraduate studies

3. One elective in materials and technology chosen from ARCH 162, 163, or other relevant course in Environmental Studies (http://catalog.yale.edu/ycps/subjects-of-instruction/environmental-studies) approved by the director of undergraduate studies

4. One elective in structures and computation chosen from ARCH 161, an approved calculus or physics course, or other relevant course approved by the director of undergraduate studies. Elementary calculus is strongly recommended as preparation for graduate studies in Architecture

5. The senior requirement: ARCH 450 and 494

For the History, Theory, and Criticism concentration, the following additional courses are required:

1. Four electives in history and theory of architecture, chosen from ARCH 341, 348, 431, or other relevant courses in History of Art (http://catalog.yale.edu/ycps/subjects-of-instruction/history-of-art) approved by the director of undergraduate studies

2. One elective in urbanism and landscape chosen from ARCH 340, 344, 345, 347, 348, 351, STCY 176, or other relevant course in American Studies (http://catalog.yale.edu/ycps/subjects-of-instruction/american-studies), Ethics, Politics, and Economics (http://catalog.yale.edu/ycps/subjects-of-instruction/ethics-politics-economics), Environmental Studies (http://catalog.yale.edu/ycps/subjects-of-instruction/environmental-studies), or Political Science (http://catalog.yale.edu/ycps/subjects-of-instruction/political-science) approved by the director of undergraduate studies

3. The senior requirement: ARCH 490 and 491

For the Urban Studies concentration, the following additional courses are required:


2. One elective in history and theory of architecture chosen from ARCH 341, 348, 431, or other relevant course in History of Art (http://catalog.yale.edu/ycps/subjects-of-instruction/history-of-art) approved by the director of undergraduate studies

3. The senior requirement: ARCH 490 and 491

Digital media orientation All Architecture students are required to complete orientation sessions in digital media workshop and materials laboratory. Students enrolled in ARCH 249 are required to complete these sessions at the beginning of the spring term of the sophomore year. Access to digital media equipment will not be allowed until the required orientation sessions have been completed. Questions should be addressed to the director of undergraduate studies or the director of digital media, John Eberhart (432-9655, john.eberhart@yale.edu).

Library orientation The Architecture program requires all students to complete a ninety-minute introductory library research session. Students enrolled in ARCH 249 must take this session at the beginning of the spring term of the sophomore year. Failure to complete the required orientation will preclude completion of the major. Students may offer no substitutions for this orientation. Students should register with the Haas Family Arts Library Public Services Librarian, Lindsay King (436-8052, lindsay.king@yale.edu). Questions should be addressed to the director of undergraduate studies.

Shop orientation The Architecture program requires all majors to complete several woodshop and materials lab orientation sessions. Students enrolled in ARCH 249 must take these sessions during the first weeks of the spring term of the sophomore year. Access to the woodshop and materials lab will not be allowed until the required orientation sessions have been completed. Questions should be addressed to the director of undergraduate studies or to the shop coordinator, Timothy Newton (432-7234, timothy.newton@yale.edu).

Senior requirement Seniors in the Design track take ARCH 450, the senior studio, and 494, the senior design project. Seniors in the History, Theory, and Criticism track and in the Urban Studies track take ARCH 490, the senior research colloquium, and 491, the senior project. Proposals for senior projects and essays are submitted in the fall term for review and approval by the senior project coordinator, and then distributed to faculty members for review before the faculty members agree to become senior advisers. Senior essays and projects for ARCH 491 are due in the office of the director of undergraduate studies by Friday, April 15, 2016. In the spring term, all seniors must submit a portfolio of their work to the office of the director of undergraduate studies by Friday, May 6, 2016. For all majors, this portfolio must be representative of the student’s design work including prerequisites and the senior project. History, Theory, and Criticism majors and Urban Studies majors must also include a copy of the senior essay and other appropriate texts.
Courses in the School of Architecture  Unless otherwise indicated in the course descriptions, all courses in the School of Architecture are open to majors and nonmajors with permission of the instructor and the graduate registrar. They are not open to the Credit/D/Fail option. Students are admitted on the basis of their previous course work and previous performance.

REQUIREMENTS OF THE MAJOR

Prerequisites  ARCH 150, 154, 249

Number of courses  15 course credits (incl prereqs and senior req)

Specific courses required  ARCH 250, 251, 260, 261

Distribution of courses  Design — 1 elective in history and theory of architecture, 1 in urbanism and landscape, 1 in materials and technology, 1 in structures and computation, all approved by DUS; History, Theory, and Criticism — 4 electives in history and theory of architecture, 1 in urbanism and landscape, all approved by DUS; Urban Studies — 4 electives in urbanism and landscape, 1 in history and theory of architecture, all approved by DUS

Other  Orientation sessions in digital media, library, and woodshop and materials lab

Senior requirement  All concentrations — portfolio representative of design work, including prereqs and senior req; Design — ARCH 450 and 494; History, Theory, and Criticism — ARCH 490 and 491; Urban Studies — ARCH 490 and 491

Courses

* ARCH 005a, Modern Architecture and the City  Karla Britton
Issues in modern American architecture and urbanism examined through the work of prominent architects closely associated with Yale and New Haven. Perspectives on the character, development, and sociocultural consequences of building today. Enrollment limited to freshmen. Preregistration required; see under Freshman Seminar Program.  HU

ARCH 150a, Introduction to Architecture  Alexander Purves
Lectures and readings in the language of architecture. Architectural vocabulary, elements, functions, and ideals. Notebooks and projects required. Not open to freshmen. Required for all Architecture majors.  HU

* ARCH 154b, Drawing Architecture  Victor Agran
Introduction to the visual and analytical skills necessary to communicate architectural ideas. Observation and documentation of architectural space on the Yale campus. Drawing exercises introduce the conventions of architectural representation: plan, section, elevation, and isometric drawings, as well as freehand perceptual drawings of architectural space. Not open to freshmen. Required for all Architecture majors.

* ARCH 162b, Materials in Architecture  Timothy Newton
Science and technology of basic building materials studied together with historic and current design applications. Skills and processes required to create, shape, and connect materials experienced through hands-on projects. Technical notebooks, drawings, design and build exercises, and projects required. Enrollment limited to 20.

ARCH 163b, Environment, Energy, Building  Michelle Addington
An introduction to energy and environmental issues faced by the discipline of architecture. Global environmental issues, basic principles of energy generation and energy use, and fundamental climatic precursors and patterns. The complexity of developing solutions that address a wide range of local and global concerns.

* ARCH 230b / STCY 176b, Introduction to the Study of the City  Alexander Garvin
An examination of forces shaping American cities and strategies for dealing with them. Topics include housing, commercial development, parks, zoning, urban renewal, landmark preservation, new towns, and suburbs. The course includes games, simulated problems, fieldwork, lectures, and discussion.  SO

* ARCH 249b, The Analytic Model  Staff
Introduction to the history and practice of architectural analysis. Students produce drawings, models, and diagrams of significant architectural works in order to facilitate a comprehensive understanding of specific architects, buildings, and contexts. Description of a variety of approaches and the reciprocal relationship between analysis and design. Required for all Architecture majors.

* ARCH 250a, Methods and Form in Architecture I  Bimal Mendis
Analysis of architectural design of specific places and structures. Analysis is governed by principles of form in landscape, program, ornament, and space, and includes design methods and techniques. Readings and studio exercises required. Enrollment limited to 25. Open only to Architecture majors.  1½ Course cr

* ARCH 251b, Methods and Form in Architecture II  Joyce Hsiang
Continuation of ARCH 250. Analysis of architectural design of specific places and structures. Analysis is governed by principles of form in landscape, program, ornament, and space, and includes design methods and techniques. Readings and studio exercises required.  1½ Course cr

ARCH 260a, History of Architecture I: Antiquity to the Baroque  Daniel Sherer
The first half of a two-term sequence in the history of architecture. Architecture and urbanism from ancient Egypt through Greek and Roman classical traditions to the Enlightenment. The formal expression — organizational, structural, and ornamental — and social context
of specific buildings and urban areas. Architecture as a form of social expression that builds on its own stylistic development, articulating a response to changes in history and culture. Emphasis on Western architecture, with selections from other parts of the world. HU

* ARCH 261b / HSAR 325b, History of Architecture II: The Eighteenth Century to the Millennium Eeva-Liisa Pelkonen
Modern architecture and urbanism from the eighteenth century to the end of the twentieth. Genesis and meaning of architectural form, applying national, cultural, and international contexts. HU

* ARCH 344a, Urban Life and Landscape Elihu Rubin
The built environment as a text tool for constructing narratives of human activity, aspiration, and struggle. Methods of viewing the ordinary landscape of the twentieth-century American city: pulling apart its historical layers, examining social meanings, and observing its function today. Modes of inquiry include video, public presentations, field trips, photography, and writing. HU

ARCH 345b, Civic Art: Introduction to Urban Design Staff
Introduction to the history, analysis, and design of the urban landscape. Principles, processes, and contemporary theories of urban design; relationships between individual buildings, groups of buildings, and their larger physical and cultural contexts. Case studies from New Haven and other world cities. HU

* ARCH 347b / EP&E 426b / PLSC 250b, Infrastructure: Politics and Design Elihu Rubin
Infrastructures—the physical frameworks for human settlement, urbanization, and social life, including networks for transportation, water, energy, and communication. Current debates on infrastructure spending in the context of historical investments in the modern American city. SO

* ARCH 348b, The Benevolent City William Reisz
Cities as places of violence, vice, and irrelevance vs. cities as stages where humanity reaches its most elevated heights of self-realization and cultural production. Critical review of writing about cities to identify recurring arguments and value systems. The question of whether cities should be expected to convey benevolence on their inhabitants. WR, HU

* ARCH 351a / AMST 381a, Poets' Landscapes Dolores Hayden
Introduction to techniques poets have used to ground their work in the landscapes and buildings of American towns and cities including Chicago, New York, and Los Angeles. Attention to poems from a national automotive landscape as well as narrative poems about cities. Writing exercises in different poetic forms; readings from the works of Dickinson, Frost, Bishop, Lowell, Wilbur, Dickey, Pinsky, Cervantes, and Merrill. WR, HU

ARCH 352a / HIST 152a / PLSC 149a, New Haven and the American City Alan Plattus, Elihu Rubin, and Douglas Rae
Introduction to urban studies using New Haven as a broad model for American urbanism. Emphasis on historical development; transportation and infrastructure; architecture, urban design, and the built environment; governance and culture; as well as planning, education, class, race, and ethnicity in the American city. SO

ARCH 431b, Religion and Modern Architecture Karla Britton
The historical evolution of sacred building in the twentieth and twenty-first centuries. Relations between a building, its cultural environment, and its cult. The influence of religion in contemporary civic life as manifest in the design and construction of prominent religious buildings. Examination of mosques, synagogues, temples, and churches. Perspectives from philosophy, comparative religion, liturgical studies, and architectural theory and practice. WR, HU

* ARCH 450a, Senior Studio Turner Brooks and Adam Hopfner
Advanced problems with emphasis on architectural implications of contemporary cultural issues. The complex relationship among space, materials, and program. Emphasis on the development of representations—drawings and models—that effectively communicate architectural ideas. To be taken before ARCH 494. Enrollment limited to Architecture majors. ½ Course cr

* ARCH 471a or b, Individual Tutorial Bimal Mendis
Special courses may be established with individual members of the department only. The following conditions apply: (1) a prospectus describing the nature of the studio program and the readings to be covered must be approved by both the instructor and the director of undergraduate studies; (2) regular meetings must take place between student and instructor; (3) midterm and final reviews are required.

* ARCH 472a, Individual Tutorial Laboratory Bimal Mendis
An independent tutorial focusing on methods and techniques of representation in architecture, including the synthesis of studio work using a variety of visual media. Concurrently with ARCH 471 or after a spring term abroad. RP ½ Course cr

* ARCH 490a, Senior Research Colloquium Karla Britton
Research and writing colloquium for seniors in the Urban Studies and History, Theory, and Criticism tracks. Under guidance of the instructor and members of the Architecture faculty, students define their research proposals, shape a bibliography, improve research skills, and seek criticism of individual research agendas. Requirements include proposal drafts, comparative case study analyses, presentations to faculty, and the formation of a visual argument. Guest speakers and class trips to exhibitions, lectures, and special collections encourage use of Yale's resources.

* ARCH 491b, Senior Project Staff
An essay or project in the student’s area of concentration. Students in the history, theory, and criticism track or in the urban studies track pursue independent research with an adviser; this project must terminate in a senior essay.
* ARCH 494b, Senior Project Design Studio  Steven Harris
Individual design investigations, focusing on independence and precision in the deployment of design ideas. Reliance on visual and nonverbal presentations. Development of a three-dimensional component, such as large-scale mock details, or other visual means of presentation, which might include photography, film, video, or interactive media. Examination of the skills, topics, and preparation to support design research.  1½ Course cr