

Architecture

College of Environmental Design (<http://ced.berkeley.edu>)

**Department Office: 232 Wurster Hall
#1800, (510) 642-4942**

Chair: Tom J. Buresh, MArch

Department Web Site: Architecture (<http://arch.ced.berkeley.edu>)

Related Course Descriptions:

Environmental Design courses (http://bulletin.berkeley.edu/archive/2013-14/courses/env_des)

Visual Studies courses (http://bulletin.berkeley.edu/archive/2013-14/courses/vis_std)

Department Overview

The Department of Architecture at UC Berkeley has a strong tradition of fostering independent design thinking and research. Our award-winning faculty offer vigorous undergraduate and graduate educational programs and carry out leading research in constructed and virtual environments, architectural technologies, and architectural humanities. The multidisciplinary interests of our faculty and graduate students form the basis of exciting new research collaborations with a variety of other disciplines, including anthropology, international studies, engineering, new media, and urban studies.

Architecture is more than design. To create livable environments means balancing complex social, political, economic, and technical requirements with human needs. Students take courses in environmental history, behavioral sciences, resource management, and design theory, as well as in the technical, aesthetic, and cultural components of design. The department prides itself on educating not only good architects, but also environmentally knowledgeable citizens.

School Philosophy

Undergraduate Philosophy

Undergraduate study in the College of Environmental Design provides a liberal education among an active community of students, scholars, creative designers, and technologists concerned with the built environment, within the larger environment of a great university.

Graduate Philosophy

The graduate programs in architecture aims to educate architects and scholars who contribute to the practice and discipline of architecture and to the development of a technologically sophisticated and humane built environment. The professional program is intended to develop students' abilities to conceive and accurately describe appropriate built spaces at several scales, to help them learn the processes used to bring buildings into place, and to provide a basis for understanding the consequences that complexes of buildings and open spaces have for inhabitants, society, and the environment.

In both its undergraduate and graduate programs, the department puts special emphasis on the studio element of its academic program,

recruiting active architecture professionals to work in consultation with regular faculty in leading the courses.

Undergraduate Program

Berkeley's undergraduate program in architecture leads to the bachelor of arts (B.A.) degree. The program combines required courses in environmental design and architecture with opportunities for highly varied individual programs. Through its core courses, the program offers a broad introduction to the field of architecture, and through studies in the various areas it provides opportunities to prepare for specialization in the field in the areas of architectural design and representation, architectural technologies and building performance, architectural history, and society and culture. In addition to offering a sound and well-rounded education, undergraduate studies can also provide pre-professional competency for entry-level employment in architecture, the option for graduate work in architecture, or further studies in a related environmental design field.

Some graduates go on to obtain professional degrees in architecture or in other related fields; many others work in architectural practice, construction, government, or industry. Employment opportunities exist also at the community level, particularly in those communities that traditionally have not been served by professional architectural practice. The overall aim of the undergraduate program is to establish a strong foundation for a diversity of careers and to provide for mobility and flexibility to suit changing individual opportunities.

Course of Study

All undergraduates follow the same path through their junior year. In the first two years, students take a breadth of lower-division courses and the introductory environmental design courses. The junior year is architecture-intensive. In the fall semester, students take a design studio and a history and humanities option. In the spring, the required courses include another studio, a course in history and a technology option.

Program Tracks

During the spring semester of the junior year, students choose either a project track or a studio track for the senior year:

- **Project Track:** The project track option explores a particular theme for both the fall and spring semesters of the senior year. This theme changes each year, and is taught by a group of faculty members on a subject of their shared interest. For the fall semester, students enroll in a project preparation seminar, and for the spring semester, students take a studio — led by the same faculty — in which they develop their research and explorations, culminating in a design project and documented in a pamphlet.
- **Studio Track:** The studio track option is studio-intensive, with more architecture courses required in addition to a design studio each semester. Studio-track students enroll in a structures course in the fall, and choose between an energy and environment or construction course in the spring.

Accreditation/Licensure

The BA degree is a pre-professional degree and provides the foundation for entry to a Master of Architecture program, the most widespread professional degree program in architecture in the United States. The B.A. degree can also be applied toward licensing requirements in the State of California. See the National Architectural Accrediting Board (<http://www.naab.org>) (NAAB) for more information on accreditation. See the California Architects Board (<http://www.cab.ca.gov>) and the National

Council of Architectural Registration Boards (<http://ncarb.org>) (NCARB) for more information on licensing.

For more information, see the department website (<http://ced.berkeley.edu/academics/architecture/programs/bachelor-of-arts-in-architecture>) .

Graduate Programs

The department offers the accredited professional degree Master of Architecture, the research degrees Master of Science and Doctor of Philosophy, and several other degree programs as described below.

Master of Architecture

The Master of Architecture program is designed to provide students seeking their first accredited professional degree with a comprehensive and challenging education leading to the practice of architecture. Graduate students have the flexibility to choose a variety of paths within a two-to-three-year rigorous program, depending upon previous education and experience. The department makes no restriction as to the field of undergraduate preparation. However, the length of the required residence period, the number of required semester course units, and the specific list of required courses may vary depending upon undergraduate major, professional and other work experience, and previous graduate study, if any.

Additional prerequisites for admission to the professional Master of Architecture program are college-level or equivalent mathematics through analytical geometry and beginning calculus and beginning physics through mechanics.

A required studio each semester introduces design issues through the study of a variety of building types, styles, and sites. The curriculum in technology and building performance, history, society and culture, structures and construction and professional practice provides the breadth and background for the individual's professional education and career goals. Students who have completed equivalent courses at other institutions may have the requirements waived to allow for more elective units.

The basic course leading to the Master of Architecture degree takes three academic years and requires the completion of at least 72 units during that period of residence. Persons who hold a bachelor of arts or bachelor of science degree with a major in architecture may receive up to one year of advanced standing. The Master of Architecture Committee of the department will determine the specific amount of advanced standing individually for each student at the time she or he first registers for graduate study in the department. Special one-year Master of Architecture programs are available to persons holding the five-year, professional undergraduate degree, Bachelor of Architecture, from an accredited school, or comparable five-year degrees from foreign universities and technical institutes.

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 a 6-year, 3-year, or 2-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 consist of a pre-professional undergraduate degree and a

professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the preprofessional degree is not, by itself, recognized as an accredited degree.

[Name of university, name of academic unit] offers the following NAAB-accredited degree program(s) (*If an institution offers more than one track for an M.Arch or D.Arch. based on the type of undergraduate/preparatory education required, please list all tracks separately*):

[Name of degree] (Prerequisite + total number of credits required)
In addition, the program is required to publish the year of the next accreditation visit for each accredited program.

Master of Science Degree in Architecture

This nonprofessional degree program offers the opportunity for advanced research in specialized areas within the architecture curriculum. A research degree, it is appropriate for those who already hold a degree in architecture but wish to study a particular subfield. Applicants from related disciplines may be accepted into the program, provided they demonstrate experience related to the discipline of architecture. Depending upon previous preparation, students are required to complete a minimum of 32 to 48 credit units, including a combined research methods course taught by a faculty team. Remaining coursework will be determined by the nature of the proposed research. A research thesis culminates the student's program. Further information about requirements for admission and application materials may be obtained from the department's graduate assistant.

Doctor of Philosophy (PhD) Degree in Architecture

This advanced degree prepares students with outstanding academic records for research and teaching in architecture and environmental design. It is a research-oriented program, in which the student chooses specific fields of specialization, prepares sufficiently in the literature and research of those fields to pass written and oral examinations, and completes original research culminating in the written dissertation. The PhD program provides detailed focus in specific study areas, including architectural design theory and criticism; architectural technologies, including building science, and building performance; the history of architecture and urban design; environmental design in developing countries; and the social and cultural basis of design.

For the PhD program, applicants should review the Graduate Division requirements with respect to admission, language requirements, candidacy, and the dissertation regulations. Applicants must hold a bachelor's degree from an accredited institution, but the department makes no restriction as to the discipline of the undergraduate preparation. Additional information is available from the departmental graduate assistant.

Program in Visual Studies (Master of Arts Degree in Design)

There is a small program in Visual Studies at the graduate level leading to the Master of Arts degree in design. Students with an interest in pursuing graduate work involved with visual design issues may apply.

The present degree is offered under Plan 1 of the Graduate Division, which requires 20 semester units plus a thesis. The length of time required for completion varies with the individual, depending in part upon previous preparation. An undergraduate degree from the College of Environmental Design or in an art-related field is helpful but not necessary. The principal emphasis in the admission process is on the portfolio that all applicants for admission to the graduate program must submit.

Concurrent Program with the Department of City and Regional Planning

The Department of Architecture and the Department of City and Regional Planning offer a concurrent degree program leading to the dual M.Arch. and M.C.P. degrees for students holding the five-year Bachelor of Architecture degree or a four-year Bachelor of Arts/Bachelor of Science degree in architecture, or equivalent degrees in related disciplines. The Master of City Planning degree portion of the concurrent program requires completion of 36 semester units; the M.Arch. segment calls for 24-72 semester units, depending upon the undergraduate degree. Applicants should indicate that they wish to be considered for the Concurrent Program in Architecture and City and Regional Planning when completing the UC Berkeley Graduate Application.

Concurrent Program with the Department of Landscape Architecture and Environmental Planning

The Departments of Architecture and Landscape Architecture and Environmental Planning offer a concurrent degree program. This program will lead to two professional degrees: Master of Architecture and Master of Landscape Architecture. The program brings together two closely connected branches of environmental design—the design of sites and the design of buildings. This program is for exceptionally qualified students who have an undergraduate degree in architecture or landscape architecture and who satisfy the admission requirements of the one- or two-year M.Arch. program and/or the two-year M.L.A. program. Applicants should indicate that they wish to be considered for the Concurrent Program in Architecture and Landscape Architecture when completing the UC Berkeley Graduate Application. Acceptance into the concurrent degree program is limited to outstanding applicants. More information may be obtained from the Graduate Office in 202 Wurster Hall or from the Department of Landscape Architecture and Environmental Planning website at laep.ced.berkeley.edu (<http://laep.ced.berkeley.edu>).

Concurrent Degree Program with the Department of Civil and Environmental Engineering, Division of Structural Engineering, Mechanics, and Materials

The two departments offer a joint program with a concurrent degree for exceptionally qualified students. Students must fulfill the course requirements for both departments but are allowed a reduction in elective units that will achieve a savings in the time enrolled, varying from one semester to one year, depending on undergraduate preparation. Some engineering courses are prerequisite to entering the program or may be taken during the first year of enrollment without credit toward the minimum course requirements. Applicants should indicate that they wish to be considered for the Concurrent Program in Architecture and Civil and Environmental Engineering when completing the UC Berkeley Graduate Application.

Concurrent MA in International and Area Studies

The concurrent M.A. program in International and Area Studies (IAS) is designed to complement the graduate degree programs in architecture. It is intended to produce graduate students who combine advanced professional training with a detailed knowledge of contemporary international issues or particular world areas or countries. The content of each M.A. program will be shaped in consultation with the departmental IAS adviser to meet the specific needs and interests of the individual student.

In addition to satisfying all Graduate Division and departmental requirements for the Master of Architecture, MS, or PhD degrees,

students in this concurrent program must complete a minimum of 24 units outside architecture in the special area agreed upon with the IAS adviser.

For additional information on these degree programs, please see arch.ced.berkeley.edu/programs (<http://arch.ced.berkeley.edu/programs>) or the Graduate Office.

Special Activities and Programs

The department offers several unique programs and activities including study-abroad programs for undergraduate students and internationally focused studios for graduate students. Recent studios have worked in India, Thailand, Mexico, Brazil, and Italy. The college also offers career workshops, job fairs, and internship placements. A weekly lecture series offers students the opportunity to hear internationally acclaimed speakers who often participate in classes and seminars as part of their visit. Opportunities are also provided to visit department exhibitions, participate in a mentor program, and become involved in student chapters of professional organizations such as the American Institute of Architects. Cross-disciplinary connections are established in joint graduate degree programs with the Departments of City and Regional Planning and Landscape Architecture and Environmental Planning as well as the Division of Structural Engineering, Mechanics, and Materials in the Department of Civil and Environmental Engineering. A post-professional Master of Urban Design degree is also available in the college. Department publications include *Process*, *Concrete*, *Architecture and Media*, and the refereed journals *Places* and *Traditional Dwelling and Settlements Review*.

ARCH 24 Freshman Seminars 1 Unit**Department:** Architecture**Course level:** Undergraduate**Terms course may be offered:** Fall and spring**Grading:** The grading option will be decided by the instructor when the class is offered.**Hours and format:** 1 hour of Seminar per week for 15 weeks.

The Berkeley Seminar Program has been designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small-seminar setting. Berkeley Seminars are offered in all campus departments, and topics vary from department to department and semester to semester.

Course may be repeated for credit as topic varies. Course may be repeated for credit when topic changes.

ARCH 39A Freshman/Sophomore Seminar 2 - 4 Units**Department:** Architecture**Course level:** Undergraduate**Terms course may be offered:** Fall, spring and summer**Grading:** The grading option will be decided by the instructor when the class is offered.**Hours and format:** Seminar format.**Prerequisites:** Priority given to freshmen and sophomores.

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Course may be repeated for credit when topic changes.

ARCH 39B Freshman/Sophomore Seminar 2 - 4 Units**Department:** Architecture**Course level:** Undergraduate**Terms course may be offered:** Fall, spring and summer**Grading:** The grading option will be decided by the instructor when the class is offered.**Hours and format:** Seminar format.**Prerequisites:** Priority given to freshmen and sophomores.

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Course may be repeated for credit when topic changes.

ARCH 39C Freshman/Sophomore Seminar 2 - 4 Units**Department:** Architecture**Course level:** Undergraduate**Terms course may be offered:** Fall, spring and summer**Grading:** The grading option will be decided by the instructor when the class is offered.**Hours and format:** Seminar format.**Prerequisites:** Priority given to freshmen and sophomores.

Freshman and sophomore seminars offer lower division students the opportunity to explore an intellectual topic with a faculty member and a group of peers in a small-seminar setting. These seminars are offered in all campus departments; topics vary from department to department and from semester to semester.

Course may be repeated for credit when topic changes.

ARCH 39D Freshman/Sophomore Seminar 2 - 4 Units**Department:** Architecture**Course level:** Undergraduate**Terms course may be offered:** Fall, spring and summer**Grading:** The grading option will be decided by the instructor when the class is offered.**Hours and format:** Seminar format