
USC School of Architecture



The design studio serves as the learning laboratory where students develop the skills and knowledge necessary to create exemplary architectural designs.

The USC School of Architecture offers undergraduate and graduate education in architecture, landscape architecture and building science. Its faculty is active in professional practice, in design research, in the supervision of programs at the Gamble House and in extended professional education.

Work in the school is conducted in an intellectual climate which promotes inquiry, introduces principles and values and teaches the disciplines necessary to work in collaboration with other professionals and to develop the common vocabulary essential to effective teamwork in later years.

Significantly, the school is located in the center of the second largest urban region in the country which offers a unique understanding of twentieth century growth and change. In such an environment the possibilities for teaching and learning are extraordinary.

Relatively small in size, the school is highly selective in its admissions and enjoys the strong support of alumni and the professions it serves. The opportunity exists for students to have close contact with faculty, other students and the practicing architects who assist them in their apprentice training.

An architecture curriculum was initiated at USC in 1914. In 1919, a Department of Architecture was created and a separate School of Architecture was organized in 1925. The school shares Watt and Harris Halls with the School of Fine Arts and the Fisher Gallery.

USC School of Architecture
Watt Hall 204
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Administration

Robert H. Timme, M.Arch.

Dean

Charles A. Lagreco, M.F.A. (Arch.)

Associate Dean

Robert Harris, M.F.A. (Arch.)

Director, Master of Architecture Program;

ACSA Distinguished Professor

Marc Schiler, M.S.

Director, Master of Building Science Program

Ted Bosley, M.B.A.

James N. Gamble Director of the Gamble House

Faculty

Della and Harry MacDonald Dean's Chair in Architecture: Robert Timme, M.Arch.

Jon Adams Jerde, FAIA, Chair in Architecture:

Kazuyo Sejima, M.Arch.; Ryue Hishizawa, M.Arch.

MacDonald and Diane Rusling Becket

Professorship in Community Design: Charles A. Lagreco, M.F.A. (Arch.)

Nancy M. and Edward D. Fox Urban Design

Critic: Scott Johnson, M.Arch.

A.C. Martin Visiting Professorship in Architectural Design: David Martin, M.Arch.

Professors: Frank Dimster, M.Arch. (U.D.);

Diane Ghirardo, Ph.D.; Robert S. Harris, M.F.A. (Arch.); John V. Mutlow, M.Arch. (U.D.);

Victor Regnier, M.Arch.*; Goetz Schierle, M.Arch., Ph.D.Arch.; Roger Sherwood, M.S.Arch., M.C.R.P.; James Steele, Ph.D.

Associate Professors: Kim Coleman, M.Arch.;

Charles Lagreco, M.F.A. (Arch.); Graeme M. Morland, Dipl.Arch.; Douglas Noble, Ph.D.*; Marc Schiler, M.Arch.Sci.

Assistant Professors: Brian Andrews, M.Arch.;

Amy Murphy, M.F.A.

Adjunct Professors: Ed Niles, B.Arch.;

Stefanos Polyzoides, M.Arch., M.U.P.

Adjunct Associate Professors: Kenneth Breisch,

Ph.D.; Jeffrey Guh, Ph.D.; Karen Kensek, M.Arch.; Michael Lehrer, M.Arch.; Dimitry Vergun, M.S.

Adjunct Assistant Professors: Janick Tabencki Dombrowa, M.Arch.; Arthur Golding, M.Arch.; Sarah Graham, M.Arch.; Margaret Griffin, M.Arch.; Yo-ichiro Hakomori, D.E.; Sara Loe, M.Arch.; Ed Woll, M.Arch.

Lecturers: Joe Addo, Dipl.A.A.; Jeffrey Allsbrook, M.Arch.; Michael Arden, B.S.; Lee Buckley, B.A.; Benjamin Caffey, M.Arch.; Douglas Campbell, M.L.Arch.; Regula Campbell, M.Arch.; Sarah Dennison, B.Arch.; Katherine Diamond, B.Arch.; Sarah Didvar-Saadi, B.Arch.; Steven Ehrlich, B.Arch.; Timothy Eilers, B.E.D.; John Friedman, M.Arch.; Lisa Gimmy, M.L.Arch.; David Gray, F.A.I.A., M.Arch.; Fritz Haeg, B.Arch.; Peyton Hall, M.E.D.; Michael Hricak, M.Arch.; Victor Jones, M.Arch.; Austin Kelly, M.Arch.; Alice Kim, M.Arch.; Emily Kovner, M.Arch.; David Leclerc, M.Arch.; Anthony Lumsden, B.Arch.; Christy McAvoy, M.A.; Dennis McFadden M.Arch.; Lee Olvera, M.Arch.; Mark Rios, M.L.Arch., M.Arch.; Jade Satterthwaite, M.L.Arch.; Anne Swelt, M.F.A.; Marvin Taff, B.Arch.; Paul Tang, M.Arch.; Warren Techentim, M.Arch.; James Tyler, B.Arch.; Ashwani Vasishth, M.S.Arch.; Li Wen, M.Arch.

Emeritus Professors: James Ambrose, M.S.; Samuel T. Hurst, M.Arch.; Waldo A. Kirkpatrick, M.S.; Ralph Knowles, M.Arch.*

*Recipient of university-wide or school teaching award.

Degree Programs

The School of Architecture offers curricula leading to the following degrees.

Bachelor of Architecture: a five-year undergraduate accredited professional degree program.

Bachelor of Landscape Architecture: a four-year undergraduate degree program concentrating on design of spaces in the urban environment.

Minor in Architecture: provides the flexibility of complementing a student's major with an area of specialization.

Minor in Landscape Architecture: provides students with the ability to integrate the natural and cultural profession of landscape architecture into their course of study.

Minor in Urban Neighborhood Studies: a 20-unit program with a focus on neighborhoods as the fundamental building blocks of cities.

Master of Architecture: a three-semester program with two tracks — one for students who hold a first professional degree from an accredited school of architecture and another for students with pre-professional degrees.

Master of Historic Preservation: a 48 unit program designed to prepare individuals to work in a wide variety of fields in both the private and public sectors including: architecture, planning, historical consultation, real estate development, construction and conservation.

Master of Landscape Architecture: a three-semester program for students who hold a first degree in architecture or landscape architecture.

Master of Building Science: a two-year program for applicants who hold a Bachelor of Architecture, Bachelor of Architectural Engineering or Bachelor of Science in Engineering degree from an accredited school of architecture or engineering. Students with five-year professional degrees in architecture may be given advanced standing.

Dual Degree in Architecture and Planning: a 72-unit program leading to the Master of Architecture and the Master of Planning degrees. Admission to both degree programs is required.

Dual Degree in Landscape Architecture and Planning: a 66-unit program leading to the Master of Landscape Architecture and Master of Planning degrees. Admission to both degree programs is required.

National Architecture Accrediting Board Statement

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 two types of degrees, the Bachelor of Architecture and the Master of Architecture. A program may be granted a five-year, three-year or two-year term of accreditation, depending on its degree of conformance with established educational standards.

Masters' degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree, which, when earned sequentially, comprise an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The USC School of Architecture Master of Architecture "+2" program is accredited by the National Architecture Accrediting Board.

Undergraduate Degrees

Bachelor of Architecture

The bachelor's degree program begins intensively with architectural studies in the first year and provides for a mix of architectural and general university studies throughout the program. The curriculum includes two cycles of development. The first cycle of six semesters provides a foundation in understanding architecture, concluding with integrative studies after two years of introductory work. The second cycle, four semesters, provides the opportunity to explore many aspects of architecture and to develop individual strengths and interests. The second cycle, and the program, concludes with a comprehensive project with a component of directed research defined by the student based on choice and initiative.

Admission as a First Year Student

All applicants to the School of Architecture must first complete the university application form and return it to the USC Office of Admission along with all Scholastic Aptitude Test (SAT) or other test scores. All freshman architecture applicants and all international students are required to submit SAT or the American College Testing (ACT) assessment.

Admission with Advanced Placement

It is possible, in selected instances, that a transfer student from an accredited junior college, community college or other university may be eligible for advanced placement at the second-year level or above if previous work includes a minimum of 32 semester units of acceptable academic credit in a pre-architecture program. The academic credit must include 8 semester units in architectural design or environmental design. Students accepted for advanced placement must still comply with all requirements for the degree.

Advanced placement applicants are required to submit a design portfolio to the School of Architecture.

Summer Transfer Studio

A seven-week summer design studio allows highly qualified students transferring from community college programs to be evaluated for advanced placement in the fall semester. Applicants must submit a portfolio by February 1. During the summer studio,

transfer students must demonstrate significant design and drawing skill to justify advanced placement. Successfully completing this summer transfer studio allows students to reduce the required 10-semester design sequence by two semesters, reducing USC residency to four years. For information about qualifying for this program, contact the school at (213) 740-2420.

Transfer students who are admitted with fewer than 32 units of college level work and who have only limited drawing or design skills will usually be placed in the first year of the five-year design sequence. Previous academic work may in part be applied toward required and elective courses for the five-year Bachelor of Architecture program.

Advisement

The School of Architecture maintains an advisement service for the benefit of all students in the school. Soon after being accepted, new students are advised by mail of an appointment for preregistration advisement. A complete record is kept of the progress of each student while in attendance. Appointments for interviews with an advisor may be scheduled at any time during the academic year.

Design Studio Grade Point Average Requirement

Less than average work in design is not considered sufficient for a professional degree. Students must receive a grade of C (2.0) or above in each semester of design (ARCH 102abL, 202abL, 302abL, 402abcL, 502aL) in order to continue in the design sequence and to graduate. Students will be required to repeat the course until such a grade is achieved.

Transfer Limit for Design Studio Credit

School of Architecture majors enrolling for a semester of study off campus are limited to the transfer of only one design studio course within the ARCH 402abcL sequence. Approval of transfer credit will be dependent upon portfolio review by an appointed faculty review committee.

Pass/No Pass Courses

Architecture students are permitted to take a maximum of 24 units of non-architecture electives, exclusive of the writing requirement, MATH 108 and PHYS 125L, on a pass/no pass option. No more than 4 units of pass/no pass courses may be applied to general elective requirements; no more than 4 units may be taken in one semester. Students who have taken non-architecture courses pass/no pass in the past (i.e., before admission to architecture) may count such pass/no pass courses toward, but not in addition to, the maximum of 24 units.

Acceleration

Students in upper division (ARCH 402abcL) may substitute one semester in the design sequence by completing a summer studio course with the grade of C or higher.

Time Limits

While there are no specific time limits for completing the bachelor's degree (except in the case of discontinued programs) the School of Architecture may require additional course work of students who remain in the degree program beyond six years.

Five-Year Curriculum for the Bachelor of Architecture Degree

FIRST YEAR, FIRST SEMESTER		UNITS
ARCH 102aL	Architectural Design I	4
ARCH 105L	Fundamentals of Design Communication	2
ARCH 114	Architecture: Culture and Community	2
General Education	Social Issues	4
MATH 108*	Introductory College Mathematics, or	
WRIT 140*	Writing and Critical Reasoning	4
		16
FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 102bL	Architectural Design I	4
ARCH 214a	History of Architecture	4
PHYS 125L**	Physics for Architects	4
General Education, or		
WRIT 130*	Analytical Writing	4
		16

SECOND YEAR, FIRST SEMESTER		UNITS	FOURTH YEAR, FIRST SEMESTER		UNITS
ARCH 202aL	Architectural Design II	6	ARCH 314	Theory and Criticism: Recent Trends and Developments	3
ARCH 213a	Building Structures and Seismic Design	3	ARCH 402aL	Architectural Design IV	6
ARCH 214b	History of Architecture	4	ARCH 520	Professional Practice: Pre-Design	2
General Education		4	ARCH 521	Professional Practice: Legal and Economic Context	2
		17	Electives		3
SECOND YEAR, SECOND SEMESTER		UNITS	FOURTH YEAR, SECOND SEMESTER		UNITS
ARCH 202bL	Architectural Design II	6	ARCH 402bL	Architectural Design IV	6
ARCH 211	Materials and Methods of Building Construction	3	ARCH 522	Professional Practice: Project and Office Administration	2
ARCH 213b	Building Structures and Seismic Design	3	ARCH 523	Professional Practice: Project Documentation	2
General Education		4	WRIT 340	Advanced Writing	4
		16	Electives		2
THIRD YEAR, FIRST SEMESTER		UNITS			16
ARCH 215	Design for the Thermal and Atmospheric Environment	3	FIFTH YEAR, FIRST SEMESTER		UNITS
ARCH 302aL	Architectural Design III	6	ARCH 402cL	Architectural Design IV	6
ARCH 313	Design of Building Structures	3	Electives		9
General Education		4			15
		16	FIFTH YEAR, SECOND SEMESTER		UNITS
THIRD YEAR, SECOND SEMESTER		UNITS	ARCH 501	Independent Study	2
ARCH 315	Design for the Luminous and Sonic Environment	3	ARCH 502aL	Architectural Design V	6
ARCH 302bL	Architectural Design III	6	Electives		8
ARCH 411	Architectural Technology	3			16
General Education		4			
		16			

*All students must enroll in WRIT 140 in the fall except those who are required to take MATH 108. These students must take WRIT 130 the following spring.

**PHYS 125L fulfills the General Education requirement in Category III.

Core Requirements

In order to take advantage of elective opportunities in the advanced program, students must complete the following courses before the end of the special integrative semester (third year, first semester): ARCH 102abL, ARCH 105L, ARCH 114, ARCH 202abL, ARCH 211, ARCH 213ab, ARCH 214ab, ARCH 215; MATH 108 (or equivalent); PHYS 125L (or equivalent); and WRIT 140 or WRIT 130.

Allocation of Elective Units

A total of 22 units of electives is included toward completion of the 160 units for the degree.

Professional Electives

A minimum of 10 units in architecture is required.

Free Electives

An additional 12 units in any category of professional courses, humanities, social sciences and communication and natural sciences. Natural sciences include astronomy, biological sciences, chemistry, computer science, geological sciences, mathematics (excluding MATH 108 or equivalent) and physics (excluding PHYS 125L or equivalent).

General Education Requirements

The university's general education program provides a coherent, integrated introduction to the breadth of knowledge you will need to consider yourself (and to be considered by other people) a generally well-educated person. This new program requires six courses in different categories, plus writing and diversity requirements, which are described in detail on pages 183 through 187.

Students who are required to take MATH 108 during the freshman year may take their Social Issues course in the fall and WRIT 130 separately in the spring.

Bachelor of Landscape Architecture

By pursuing degrees in landscape architecture, students develop their ability to critically examine and creatively respond to the wide array of environmental problems. The development of young professionals who can take on the challenge of working in interdisciplinary fields, mediating between the goals and desires of diverse groups while soliciting their participation and pressing for creative solutions, requires certain fundamental skills. The program will encourage and develop the

following skills and abilities in students so that they can flourish in a professional setting:

- Knowledge of the physical world and the interrelationships between humans and the biological systems of which they are part.
- The ability to delineate the critical issues affecting a site through an inventory and analysis of physical, social and cultural factors; and recognition of the hidden trade-offs inherent in such an evaluation.

- The ability to use their knowledge and experience to creatively respond to the problems that confront them and to have the determination to make their ideas a reality.

- The ability to effectively communicate with peoples of diverse backgrounds through both words and images.

- The ability to deal with individuals, community groups, public agencies or large corporations, and to work in concert and manage conflict through development.

- Familiarity with new technologies, their impacts and their potential for the profession of landscape architecture and land planning.

- Awareness of the constant evolution of knowledge and a commitment to continually reexamine assumptions.

The Bachelor of Landscape Architecture is a four-year program of lectures, seminars and studio courses. Through academic research, personal participation and group endeavor, the program will introduce students to historic and contemporary issues in landscape architecture. Projects will concentrate on the design of spaces in the urban landscape. This emphasis derives from our location in Southern California, at the very heart of an exuberant and dynamic metropolitan area.

Each semester, the design studio will be paired with courses that develop technical skills, expand the students' working knowledge of plant materials and natural systems, and explore the history and theory of design. A component of each studio project will be performed collaboratively to develop the students' ability to work collectively.

Curriculum

FIRST YEAR, FIRST SEMESTER		UNITS
ARCH 102aL	Architectural Design I	4
ARCH 105L	Fundamentals of Design Communication	2
ARCH 114	Architecture: Culture and Community	2
General Education*	Social Issues Writing and Critical Reasoning	4
		4
		<hr/> 16

*Taken concurrently

FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 102bL	Architectural Design I	4
ARCH 211	Materials and Methods of Building Construction	3
General Education		8
		<hr/> 15

SECOND YEAR, FIRST SEMESTER		UNITS
ARCH 202aL	Architectural Design II	6
ARCH 304x	Intensive Survey: Pre-History to the Present	4
ARCH 361L	Ecological Factors in Design	3
General Education		4
		<hr/> 17

SECOND YEAR, SECOND SEMESTER		UNITS
ARCH 260L	Landscape Architecture Design I	6
ARCH 362	Landscape Architecture Construction	3
ARCH 363	Plant Material Identification: Horticulture	4
ARCH 365	History of Landscape Architecture	4
		<hr/> 17

THIRD YEAR, FIRST SEMESTER		UNITS
ARCH 360aL	Landscape Architecture Design II	6
ARCH 364	Materials and Methods of Landscape Architecture	3
GEOG 345	Conservation of Natural Resources, or	4
GEOG 477	Water Resources	4
WRIT 340	Advanced Writing	4
		<hr/> 17

THIRD YEAR, SECOND SEMESTER		UNITS
ARCH 207a	Computer Applications in Architecture	2
ARCH 360bL	Landscape Architecture Design II	6
ARCH 463	Plant Material Identification: California Plant Communities	4
General Education		4
		<hr/> 16

FOURTH YEAR, FIRST SEMESTER		UNITS
ARCH 366	Nature Landscapes and Gardens in Non-Western Cultures	4
ARCH 460L	Landscape Planning Studio	6
PPD 100	Los Angeles, The Enduring Pueblo	4
General Education		4
		<hr/> 18

FOURTH YEAR, SECOND SEMESTER		UNITS
ARCH 461L	Landscape Architecture Comprehensive Project	6
ARCH 522	Professional Practice: Project and Office Administration	2
ARCH 523	Professional Practice: Project Documentation	2
Electives		4
		<hr/> 14
Total units required:		130

Minors in Architecture

Minor in Architecture

The minor in architecture provides the flexibility of complementing a student's major with an area of specialization. Taking a minor in architecture is a unique opportunity for a student to stimulate his or her imagination and learn creative approaches to problem solving.

The requirements for the minor include three required courses (8 units) and a minimum of 12 units of upper division courses.

REQUIRED COURSES		UNITS
ARCH 106x	Workshop in Architecture	2
ARCH 114	Architecture: Culture and Community	2
ARCH 304x	Intensive Survey: Prehistory to the Present	4

Students may elect to take the upper division courses in an area of specialization, such as architectural history and theory, historical preservation, computers and design, visual communication, landscape architecture, public places – urban spaces, housing or practice management.

Minor in Landscape Architecture

The minor in landscape architecture provides students with the ability to integrate the natural and cultural profession of landscape architecture into their course of study. Students will be instructed about natural resources and their importance in the built environment. The art of the garden in literature, music, painting and sculpture will be presented as it related to human endeavor and the resulting cultures. This is an excellent emphasis for students in environmental studies, civil engineering, planning and anthropology.

Admission Requirements

Students in good academic standing who have completed the freshman year are eligible. There is no preset GPA requirement. No standardized test or foreign language skills are required for admission.

Course Requirements

The minor in landscape architecture consists of three required courses (9 units) and a minimum of 14 units of upper division courses.

REQUIRED COURSES		UNITS
ARCH 106x	Workshop in Architecture	2
ARCH 361L	Ecological Factors in Design	3
ARCH 365	History of Landscape Architecture (Western Tradition)	4
UPPER DIVISION COURSES (14 UNITS)		UNITS
ARCH 363	Plant Material Identification: Horticulture	4
ARCH 364	Materials and Methods of Landscape Architecture	3
ARCH 366	Nature, Landscape and Gardens in Non-Western Cultures	4
ARCH 432	People, Places and Culture: Architecture of the Public Realm	4
ARCH 499	Special Topics	2-4
ARCH 532	Elements of the Urban Landscape	2
ARCH 533	Urban Landscape Case Studies	2
ARCH 536	The Landscape Planning Process	4
ARCH 561	Architecture in the Urban Landscape: Projects and Places	2
ARCH 563	Architecture in the Urban Landscape: Comparative Theories	2

Minor in Urban Neighborhood Studies

The focus of this minor is on the quality of urban life at the scale of the neighborhood or district. This is the location of the places of residence and work, of education and religion, of everyday life. Neighborhoods are the fundamental building blocks of cities.

The minor is supported by the four “urban schools” of USC: Architecture, Education, Social Work, and Policy, Planning, and Development. The core studies are “hands-on” as a practicum in learning about neighborhoods and learning how the disciplines of the four schools provide the means for understanding and treating urban issues. The core courses are team taught by faculty from the collaborating schools.

This minor should be of interest to students generally, but especially to those interested in the nature of urban life and the policies and actions directed toward the improvement of cities.

The requirements for the minor include two required courses and 12 units of elective courses, including at least one from each of three of the Schools of Architecture, Education, Social Work, and Policy, Planning, and Development.

One of the listed geography courses may be substituted for a course from one of the sponsoring schools. At least 8 of the 12 elective units must be upper division. Students in the School of Architecture and in the School of Policy, Planning, and Development may not apply more than one core course toward their major and must take all of their elective courses outside their major.

REQUIRED COURSES		8 UNITS
URBN 375	The Urban Neighborhood	4
URBN 475	Urban Practicum	4

ELECTIVE COURSES		UNITS
One course each selected from three of the four schools:		
ARCH 114	Architecture: Culture and Community	2
ARCH 206	Shelter	4
ARCH 432	People, Places, and Culture: Architecture of the Public Realm	4
ARCH 450	Fundamentals of Historic Preservation	4
EDPA 302	Global Education	4
EDPA 308	Politics and American Education	3
GEOG 325*	Culture and Place	4
GEOG 340*	Latino L.A.	4
GEOG 410*	Urban Geography	4
PPD 350	Urban Institutions and Policies	4
PPD 372	Public Service in an Urban Setting	4
PPD 417	History of Planning and Development	4
PPD 425	Designing Livable Communities	4
PPD 439	Housing and Community Development	4
SOWK 200	Institutional Inequality in American Political and Social Policy	4
SOWK 304	Children and Families in Urban America	4
SOWK 400	Children and Families in Urban America Capstone Course	4

*May be substituted for a course from one of the sponsoring schools.

International and Other Programs

Spring Semester in Italy: Milan-Como Anthony A. Marnell II, Italian Architecture Studies Program

The School of Architecture has a study-abroad program in Milan, a city in the forefront of Italian modern architecture and the center of Italian design. Students are housed and have classroom and studio space in Como, a small and pleasant lakeside town about 30 miles from Milan.

The program is held in the spring semester. A full semester of study includes courses in design; history and theory; technology; and cultural studies. Fourth-year students and graduate students are eligible for the program.

The Milan-Como Program is one of two U.S. school of architecture programs in this part of Italy. Strong relationships are fostered with the place, its people and culture.

Visits are planned to Rome, Florence, Sienna and Venice, and there are opportunities for travel and study in Austria, Switzerland, France and Germany.

Fall Semester in France

The school also offers a study abroad program in Saintes, France. The goal of the 16-unit semester program in France is to provide a place for 12 fourth- and fifth-year architecture students to extend the boundaries of their architectural studies beyond the USC campus.

Students develop an understanding of the relationship between architecture and the culture that influences it, which serves to build a broader, more thoughtful, critical framework for their own work. Students experience first-hand significant architectural built work from Medieval times to the present day in a variety of European locations. They compare the development of architecture in Europe, especially France, with that which has occurred in the United States.

The city of Saintes has provided a 5,800 square foot building in the historical medieval section of the city for the program. The facilities include housing for students and faculty, kitchen and dining area, and studio work space as well as a model shop, library, computer center and garden. The new Sarah Campbell Blaffer Gallery is an important part of the partnership with the local community and is used for displaying student and faculty work and other significant projects.

Summer Semester in Asia

The School of Architecture offers a summer semester in Asia. Accompanied by USC faculty, students will spend the first two weeks in Japan, including study tours in Tokyo and Kyoto. They will next visit Shanghai for 10 days where housing will be provided by Fudan University. The remainder of the time will be in Kuala Lumpur in residence at the University of Malaya. During this time, USC students will work on a project in cooperation with students from the School of Architecture at the University of Malaya.

The purpose of this program is to offer students in the School of Architecture an opportunity to:

- work on a real project in a country where development is a prime goal of the government and where opportunities for architecture students to complete internships and gain employment after graduation are expanding;
- work with the physical requirements, governmental regulations and economic situations that affect the design of projects that will be able to be realized;
- become familiar with practitioners in Malaysia and Singapore to learn about architectural practice in these areas; and
- expand appreciation of the importance of Asian development in the current world market and show practitioners USC graduates' ability to contribute to the development in Asia.

Summer Studio in Los Angeles

Upper division students at USC and students at any level from other accredited schools of architecture may enroll in summer design studies for design credit. Special project opportunities are arranged to encourage full use of Los Angeles as an excellent architectural laboratory.

The Building Science Program in Civil Engineering

The Department of Civil Engineering offers an undergraduate program leading to the degree of Bachelor of Science in Civil Engineering, with an emphasis in building science. The curriculum includes most of the work which is required for the major in structures, plus 30 units in architectural studies offered by the School of Architecture. See the School of Engineering section of this catalogue for further information.

Exploration of Architecture Summer Program for High School Students

Each year, the School of Architecture offers special one-, two- and three-week programs to help high school students explore the possibilities of careers in architecture.

Living on campus in a USC residence hall, students participate in studio classes with professional critics and design a small building. They present their designs in a special review attended by parents and friends. They visit some of the most dramatic and worthwhile examples of architecture in the Los Angeles area and talk to some of the architects who designed them. They attend lectures and films on architecture as well as several social events with faculty and students of the School of Architecture.

The workshop is open to high school students interested in exploring architecture education and practice. Some tuition scholarships are available.

For additional information, contact the School of Architecture office at (213) 740-2420.

Exhibits of Student Work

From time to time students are given the opportunity to show work in class and in exhibitions. Students provide such work voluntarily and at their own risk. Work that is lost, damaged or stolen is not the responsibility of the school.

Field Trips

Field trips are organized each year in support of various aspects of the academic program. During the past several years, the second-year class has made trips to La Jolla to see the Salk Institute and to Catalina Island in connection with a studio project. In addition, students regularly visit sites of significance in the Los Angeles area.

Lectures and Exhibitions

The school provides significant service to the community and profession through public programs and by the participation of faculty members in community and professional activities.

With the support and cooperation of the Architectural Guild, the school generates a vigorous program of lectures, exhibitions and tours.

During the past several years a large number of the world's most distinguished architects have lectured at USC. These include Frank Gehry, Mario Botta, Thom Mayne, Fumihiko Maki, Jean Nouvel, Henry Cobb, Richard Meier, Will Bruder, Enrique Norten, Mark Mack and Steven Ehrlich.

The school also provides the Helen Lindhurst Architecture Gallery for major architectural exhibitions. Recent shows have included important international architects such as Christoph Kapeller, Renzo Piano, Santiago Calatrava, Herman Hertzberger, and Alvaro Siza, as well as USC faculty, students and alumni.

Graduate Programs

The school offers interrelated graduate programs in architecture, landscape architecture, building science and historic preservation as well as two dual degree programs with the School of Policy, Planning, and Development. These programs are designed for students who already hold either pre-professional or professional degrees in the appropriate professional fields.

Admission to Graduate Programs

Credentials for admission must include a complete record of all previous college or university work. The applicant must request the registrar of each college or university attended to forward two official transcripts of record directly to the Office of Admission.

Priority for admission and financial aid is given to applications that are complete by February 1.

Following are the basic requirements for admission to the graduate programs: (1) the appropriate pre-professional or first professional degree from an accredited college or university; (2) satisfactory scores on the verbal, analytical and quantitative portions of the aptitude test of the Graduate Record Examinations; (3) intellectual promise and clear study intentions that indicate an ability to do acceptable graduate work; (4) a portfolio of design work*; (5) strong personal qualifications.

All students must speak and write English. Foreign students must demonstrate such ability by taking the TOEFL test before leaving their home countries, and by further tests upon arrival on campus. Applicants for teaching assistantships will be interviewed by telephone or in person, where possible, prior to a final decision.

International students may be required to enroll in American Language Institute (ALI) English courses, based on scores on the English Placement Tests. The cost of these additional courses is the responsibility of the student. In addition, international students should be aware that they may have to defer enrollment in some major courses because of the ALI courses, extending the number of semesters required to complete the program

and increasing the overall tuition expense. International students are urged to read with care all information sent to them about English requirements and to take as many English language courses as possible prior to coming to the United States.

*Master of Building Science accepts computer programs, papers and other work as portfolio work.

Correspondence with the dean or individual faculty members does not constitute admission to the Graduate School or to the School of Architecture. Only a letter from the Director of Admission grants official admission.

Graduate Program Policies

All graduate students are expected to complete a minimum of 12 units per semester, spring and fall, in any of the school's programs.

A minimum grade of C (2.0) is required in a course to receive graduate credit. A grade point average of at least 3.0 on all units attempted at USC toward a graduate degree is required for graduation. Course work taken on a pass/no pass basis cannot be applied toward a graduate degree. If students are not meeting these minimum grades the faculty member should meet with the student to provide timely advisory reviews.

Students receiving a teaching assistantship are expected to complete all required courses within the normal number of semesters for each of the degree programs. The thesis or directed design research may be completed in additional semesters when appropriate. Failure to complete such courses on schedule results in the loss of teaching or research assistantships and/or may result in suspension from the program upon recommendation from the program director and approval by the dean and the Vice Provost for Academic Programs.

Students holding teaching assistantships are expected to remain in good academic standing (minimum 3.0 grade point average) and to be making regular degree progress to be considered for renewal of their teaching assistantships.

Appeals will be reviewed initially by the director(s) of the appropriate graduate program and then by a committee consisting of all of the graduate program directors (with the exception that design courses will be reviewed by the design review committee). Their recommendation(s) will be forwarded to the dean for consideration and action, and then forwarded to the Vice Provost for Academic Programs. All communications must be in writing.

Certificate in Historic Preservation

This program is directed at practicing professionals who wish to obtain an academic credential for their involvement in historic preservation projects and at graduate students who wish to obtain a complementary credential to a degree in architecture, landscape architecture, planning, public art administration, geography, anthropology or other related disciplines.

Course Requirements

Completion of the certificate requires 16 units, including ARCH 450 Fundamentals of Historic Preservation (4), ARCH 553 History of American Architecture and Urbanism (4), and either ARCH 550 Historic Preservation Management, Planning and Development (4) or ARCH 551 Conservation Methods and Materials (4). Students may choose to complete both ARCH 550 and ARCH 551. The remaining 4 units (if needed) must be selected in consultation with the program director.

SAMPLE ELECTIVES		UNITS
ARCH 511L	Seminar: Building Systems	4
ARCH 532	Elements of the Urban Landscape	2
ARCH 535ab	Materials and Methods for Landscape Architecture	3-3
ARCH 590	Directed Research (must be in historic preservation)	2-4
ARCH 605aL	Graduate Architecture Design	6

Master of Architecture

Programs

Two master's programs are offered: a track in American Architecture and Urbanism, the "+2" program for students with pre-professional architecture degrees, and two post-professional Master of Architecture programs for students who hold a professional degree such as the Bachelor of Architecture or its equivalent.

Master of Architecture in American Architecture and Urbanism Track: The +2 Program

Admitted students must already hold four-year architectural studies degrees from U.S. schools with accredited professional architecture programs or from international programs that are deemed equivalent. All students will matriculate in the fall semester and will be in residence for a minimum of two years (four semesters).

Degree Requirements

Students must meet established standards for graduate study at USC, and complete 64 credit units including prerequisite Basic Studies and 48 units of graduate level courses including Advanced Studies and approved electives.

(1) To complete Basic Studies (equivalent to the following courses at USC): ARCH 211 Materials and Methods of Building Construction, ARCH 213ab Building Structures and Seismic Design, ARCH 214ab History of Architecture, ARCH 215 Design for the Thermal and Atmospheric Environment, ARCH 313 Design of Building Structures, ARCH 314 Theory and Criticism: Recent Trends and Developments, ARCH 315 Design for the Luminous and Sonic Environment, ARCH 402ab Architectural Design IV, ARCH 411 Architectural Technology, ARCH 520 Professional Practice: Pre-Design, ARCH 521 Professional Practice: Legal and Economic Context, ARCH 522 Professional Practice: Project and Office Administration and ARCH 523 Professional Practice: Project Documentation.

(2) To complete Advanced Studies courses including: ARCH 505abL Graduate Architecture Design, ARCH 532 Elements of the Urban Landscape, ARCH 533 Urban Landscape Case Studies, ARCH 561 Architecture in the Urban Landscape: Projects and Places, ARCH 563 Architecture in the Urban Landscape: Comparative Theories, and ARCH 605abL Graduate Architecture Design.

Thesis or Directed Design Research Option

An independent study option will allow students to substitute ARCH 693abL or ARCH 695abL for 12 credit units of electives. This option requires residency of a minimum of five instead of four semesters.

Sample Curriculum

FIRST YEAR, FIRST SEMESTER		UNITS
ARCH 505aL	Graduate Architecture Design	6
	Basic Studies or Electives	10
		16
FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 505bL	Graduate Architecture Design	6
	Basic Studies or Electives	10
		16
SECOND YEAR, FIRST SEMESTER		UNITS
ARCH 532	Elements of the Urban Landscape	2
ARCH 561	Architecture in the Urban Landscape: Projects and Places	2
ARCH 605aL	Graduate Architecture Design	6
	Basic Studies or Electives	6
		16
SECOND YEAR, SECOND SEMESTER		UNITS
ARCH 533	Urban Landscape Case Studies	2
ARCH 563	Architecture in the Urban Landscape: Comparative Theories	2
ARCH 605bL	Graduate Architecture Design	6
	Basic Studies or Electives*	6
		16
OPTIONAL THIRD YEAR, FIRST SEMESTER		UNITS
ARCH 693bL**	M.Arch. Thesis, Option I, or	8
ARCH 695bL**	M.Arch. Thesis, Option II	

*Students electing the independent study option may substitute ARCH 693a or ARCH 695a.

**For students who have elected the independent study option.

Master of Architecture

Candidates for admission must have a five-year Bachelor of Architecture degree or its equivalent. Completion of the degree requires 48 units, including 20 units of specified courses, 12 units of thesis or directed design research, and 16 units of approved electives.

The specified courses are ARCH 605abL Graduate Architecture Design; ARCH 532 Elements of the Urban Landscape; ARCH 533 Urban Landscape Case Studies; ARCH 561 Architecture in the Urban Landscape: Projects and Places; and ARCH 563 Architecture in the Urban Landscape: Comparative Theories.

Thesis or Directed Research Option

In addition to the opportunity to initiate an independent thesis, students are provided the option to undertake independent design research related to important urban projects already in progress within the school. Whichever option is taken, students are supported in their work by a three-member faculty advisory team including a principal critic.

Advanced Standing

Students may apply for advanced standing based on their general qualifications and any unusual strengths or experience. Applicants who have completed a five-year Bachelor of Architecture degree and at least five years of teaching or practice (or a combination of), may be qualified for advanced standing. Each student will be considered individually. Qualified students will be admitted to a two-semester program at the time of review for admission. Students with advanced standing must complete 32 units.

32-Unit Advanced Standing Sample Curriculum

FIRST YEAR, FIRST SEMESTER		UNITS
ARCH 532	Elements of the Urban Landscape	2
ARCH 533	Urban Landscape Case Studies	2
ARCH 605aL	Graduate Architecture Design	6
ARCH 693aL	M.Arch. Thesis, Option I, or	4
ARCH 695aL	M.Arch. Thesis, Option II	
	Elective	2
		16
FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 561	Architecture in the Urban Landscape: Projects and Places	2
ARCH 563	Architecture in the Urban Landscape: Comparative Theories	2
ARCH 693bL	M.Arch. Thesis, Option I, or	8
ARCH 695bL	M.Arch. Thesis, Option II	
	Elective	4
		16

48-Unit Sample Curriculum

FIRST YEAR, FIRST SEMESTER		UNITS
ARCH 532	Elements of the Urban Landscape	2
ARCH 561	Architecture in the Urban Landscape: Projects and Places	2
ARCH 605aL	Graduate Architecture Design	6
Elective		6
		16

FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 533	Urban Landscape Case Studies	2
ARCH 563	Architecture in the Urban Landscape: Comparative Theories	2
ARCH 605bL	Graduate Architecture Design	6
ARCH 693aL	M.Arch. Thesis, Option I, or	
ARCH 695aL	M.Arch. Thesis, Option II	4
Elective		2
		16

SECOND YEAR, FIRST SEMESTER		UNITS
ARCH 693bL	M.Arch. Thesis, Option I, or	
ARCH 695bL	M.Arch. Thesis, Option II	8
Electives		8
		16

Master of Landscape Architecture

Degree Requirements

Admission to the Master of Landscape Architecture program requires a Bachelor of Architecture or Bachelor of Environmental Design with a major in landscape architecture. Applicants are also expected to have completed 6 units in the history of landscape architecture (ARCH 534ab or equivalent) and 6 units in materials and methods for landscape architecture (ARCH 535ab or equivalent) prior to beginning graduate study.

Thesis or Directed Research Option

In addition to the opportunity to initiate an independent thesis, students are provided the option to undertake independent design research related to important urban projects already in progress within the school. Whichever option is taken, students are supported in their work by a three-member faculty advisory team including a principal critic.

Course Requirements

Completion of the degree program requires 48 units, including 20 units of specified courses, 16 units of approved electives and 12 units of thesis option I or option II.

Degree Requirements

Advanced Standing

Applicants with exceptional qualifications including a professional degree in landscape architecture or architecture and professional experience may be admitted with advanced standing. Students must request such consideration when applying for admission. Students with advanced standing must complete 32 units.

32-Unit Advanced Standing Sample Curriculum

FIRST YEAR, FIRST SEMESTER		UNITS
ARCH 532	Elements of the Urban Landscape	2
ARCH 533	Urban Landscape Case Studies	2
ARCH 597aL	Landscape Architecture Thesis, Option I, or	
ARCH 598aL	Landscape Architecture Directed Design Research	4
Electives		8
		16

FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 561	Architecture in the Urban Landscape: Projects and Places	2
ARCH 563	Architecture in the Urban Landscape: Comparative Theories	2
ARCH 597bL	Landscape Architecture Thesis, Option I, or	
ARCH 598bL	Landscape Architecture Directed Design Research	8
Electives		4
		16

48-Unit Program

Required courses include: ARCH 532 (2), ARCH 533 (2), ARCH 542aL (6), ARCH 561 (2), ARCH 563 (2). A total of 22 elective units are required. Students must take at least two elective courses from the following selection: ARCH 407 (4), ARCH 418 (3), ARCH 507 (3), ARCH 599 (4). In addition, two semesters of Thesis Option or Directed Design Research are required, ARCH 597abzL (4-8-0) or ARCH 598abzL (4-8-0).

48-Unit Sample Curriculum

FIRST YEAR, FIRST SEMESTER		UNITS
ARCH 532	Elements of the Urban Landscape	2
ARCH 561	Architecture in the Urban Landscape: Projects and Places	2
ARCH 542aL	Landscape Architecture Design	6
Electives		6
		16

FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 533	Urban Landscape Case Studies	2
ARCH 563	Architecture in the Urban Landscape: Comparative Theories	2
ARCH 542bL	Landscape Architecture Design	6
ARCH 597aL	Landscape Architecture Thesis Option I, or	
ARCH 598aL	Landscape Architecture Directed Design Research	4
Electives		2
		16

SECOND YEAR, FIRST SEMESTER		UNITS
ARCH 597bL	Landscape Architecture Thesis Option I, or	
ARCH 598aL	Landscape Architecture Directed Design Research	8
Electives		8
		16

Master of Historic Preservation

Completion of this degree requires 48 units and includes 21 units of specified courses, 8 units of thesis preparation and thesis, and 19 units of elective courses as approved by the program director.

REQUIRED COURSES **UNITS**

ARCH 404	Topics in Modern Architecture in Southern California	3
ARCH 450	Fundamentals of Historic Preservation	4
ARCH 550	Historic Preservation Management, Planning and Development	4
ARCH 551	Conservation Methods and Materials	4
ARCH 552	Introduction to Historic Site Documentation	2
ARCH 553	History of American Architecture and Urbanism	4
ARCH 691abz	Historic Preservation Thesis Preparation and Thesis	2-6-0

48-Unit Sample Curriculum

FIRST YEAR, FIRST SEMESTER **UNITS**

ARCH 450	Fundamentals of Historic Preservation	4
ARCH 553	History of American Architecture and Urbanism	4
Electives		4
		<hr/> 12

FIRST YEAR, SECOND SEMESTER **UNITS**

ARCH 404	Topics in Modern Architecture in Southern California	3
ARCH 551	Conservation Methods and Materials	4
ARCH 691a	Historic Preservation Thesis Preparation and Thesis	2
Electives		3
		<hr/> 12

SECOND YEAR, FIRST SEMESTER **UNITS**

ARCH 550	Historic Preservation Management, Planning and Development	4
ARCH 552	Introduction to Historic Site Documentation	2
Electives		6
		<hr/> 12

SECOND YEAR, SECOND SEMESTER **UNITS**

ARCH 691b	Historic Preservation Thesis Preparation and Thesis	6
Basic studies or electives		6
		<hr/> 12

Requirements for Advanced Standing

Students must have one of the following: an accredited graduate certificate in historic preservation; professional degree or professional registration in architecture or engineering; graduate degree in a related field, such as architectural history, planning or history; and at least five years of teaching or practice (may be combined). Each student will be considered individually. Qualified students will be admitted to a three-semester program at the time of review of admission. Students with advanced standing must complete 36 units.

REQUIRED COURSES **UNITS**

ARCH 404	Topics in Modern Architecture in Southern California	3
ARCH 450	Fundamentals of Historic Preservation	4
ARCH 550	Historic Preservation Management, Planning and Development	4
ARCH 551	Conservation Methods and Materials	4

ARCH 552	Introduction to Historic Site Documentation	2
ARCH 553	History of American Architecture and Urbanism	4
ARCH 691abz	Historic Preservation Thesis Preparation and Thesis	2-6-0

36-Unit Sample Curriculum

FIRST YEAR, FIRST SEMESTER **UNITS**

ARCH 450	Fundamentals of Historic Preservation	4
ARCH 553	History of American Architecture and Urbanism	4
Electives		4
		<hr/> 12

FIRST YEAR, SECOND SEMESTER **UNITS**

ARCH 404	Topics in Modern Architecture in Southern California	3
ARCH 551	Conservation Methods and Materials	4
ARCH 552	Introduction to Historic Site Documentation	2
ARCH 691a	Historic Preservation Thesis Preparation and Thesis	2
Elective		1
		<hr/> 12

SECOND YEAR, FIRST SEMESTER **UNITS**

ARCH 550	Historic Preservation Management, Planning and Development	4
ARCH 691b	Historic Preservation Thesis Preparation and Thesis	6
Electives		2
		<hr/> 12

Master of Building Science

Degree Requirements

Completion of this degree requires 48 units and includes 16 units of specified courses to include three core seminars and one research seminar; 17 units of elective courses; and 15 units of thesis and thesis preparation.

The core seminars are:

ARCH 511L	Seminar: Building Systems	4
ARCH 513L	Seminar: Advanced Structures	4
ARCH 515L	Seminar: Advanced Environmental Systems	4

Research seminars are:

ARCH 613L	Seminar: Structures Research, or	4
ARCH 615L	Seminar: Environmental Systems Research	4

48-Unit Sample Curriculum

FIRST YEAR, FIRST SEMESTER		UNITS
Core seminar(s) and/or research seminar(s)		12
ARCH 596	Building Science Thesis Preparation	1
		13
FIRST YEAR, SECOND SEMESTER		UNITS
Core seminar and/or research seminar		4
Electives		7
		11
SECOND YEAR, FIRST SEMESTER		UNITS
ARCH 692aL	Building Science Thesis	6
Electives		6
		12
SECOND YEAR, SECOND SEMESTER		UNITS
ARCH 692bL	Building Science Thesis	8
Elective		4
		12

Advanced Standing for Students with a Five-Year Professional Degree in Architecture

Applicants who have completed a five-year Bachelor of Architecture degree and at least five years of teaching or practice (may be combined), may be qualified for advanced standing. Each student will be considered individually. In such cases, the degree requirements are 36 units, including 8 units of specified courses, 15 units of thesis and thesis preparation and 13 units of electives. Students with advanced standing will typically be able to complete the degree program in three regular semesters. Admission with advanced standing is determined at the time of review for admission to the program.

36-Unit Advanced Standing Sample Curriculum

FIRST YEAR, FIRST SEMESTER		UNITS
ARCH 511L	Seminar: Building Systems	4
ARCH 513L	Seminar: Advanced Structures	4

ARCH 515L	Seminar: Advanced Environmental Systems	4
ARCH 596	Building Science Thesis Preparation	1
		13

FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 613L	Seminar: Structures Research, or	
ARCH 615L	Seminar: Environmental Systems Research	4
ARCH 692aL	Building Science Thesis	6
Electives		2
		12

SECOND YEAR, FIRST SEMESTER		UNITS
ARCH 692bL	Building Science Thesis	8
Electives		3
		11

Dual Degrees

Master of Architecture/Master of Planning

The Master of Planning/Master of Architecture dual degree program facilitates highly related cross-disciplinary studies in architecture and in planning at the master's level. This program offers students interested in developing a career in urban design an opportunity to make more substantial commitments in both disciplines and to achieve a more coherent and extensive knowledge in the design of built environments and public policy. This dual degree program normally requires five semesters in residence.

Qualified students who are admitted to the graduate programs in both the School of Architecture and the School of Policy, Planning, and Development may complete both degrees in a highly integrated five-semester program. Such students must already possess a degree in architecture.

Requirements

Requirements for completion of the dual degree program are 72 units, including 36 units in architecture and 36 units in planning, as follows:

ARCHITECTURE		UNITS
ARCH 532	Elements of the Urban Landscape	2
ARCH 533	Urban Landscape Case Studies	2

ARCH 561	Architecture in the Urban Landscape: Projects and Places	2
ARCH 563	Architecture in the Urban Landscape: Comparative Theories	2
ARCH 605abL	Graduate Architecture Design	6-6
ARCH 693abL	M.Arch. Thesis, Option I, or	
ARCH 695abzL	M.Arch. Thesis, Option II	4-8
Elective*		4

*A 4 unit elective course taken within the School of Architecture.

POLICY, PLANNING, AND DEVELOPMENT		UNITS
PPD 500	Cross-Sectoral Governance	4
PPD 524	Planning Theory	2
PPD 525	Statistics and Arguing from Data	2
PPD 526	Comparative International Development	2
PPD 527	The Social Context of Planning	2
PPD 528	The Urban Economy	2
PPD 529	Legal Environment of Planning	2

Note: 2-unit courses may be offered in seven-and-a-half week blocks.

Specialization methodology: four units selected from the list shown in the Master of Planning program.

Laboratory/Workshops: PPD 531L (4, 4) and/or PPD 532L (4, 4) to total 8 units.

Elective: A total of 8 units of electives taken within the School of Policy, Planning, and Development.

Dual degree students, like all other M.Pl. students, must take a comprehensive examination and fulfill the internship requirement.

Master of Landscape Architecture/Master of Planning

Qualified students who are admitted to the graduate program in both the School of Architecture and the School of Policy, Planning, and Development may complete both degrees in a highly integrated five-semester program.

Completion of the dual degree requires 66 units, including 20 units of specified courses in landscape architecture, 24 units of courses in urban planning, 10 units of elective courses and 12 units of thesis option I or directed design research option II.

The specified courses are those required for the Master of Landscape Architecture degree.

LANDSCAPE ARCHITECTURE		UNITS	STUDIOS		UNITS			
ARCH 532	Elements of Urban Landscape	2	ARCH 542abL	Landscape Architecture Design	6-6	PPD 528	The Urban Economy	2
ARCH 533	Urban Landscape Case Studies	2				RED 573	Design History and Criticism	2
ARCH 561	Architecture in the Urban Landscape: Projects and Places	2	POLICY, PLANNING, AND DEVELOPMENT		UNITS			8
ARCH 563	Architecture in the Urban Landscape: Comparative Theories	2	PPD 500	Cross-Sectoral Governance	4			
ARCH 597abzL	Landscape Architecture Thesis Option I, or		PPD 524	Planning Theory	2	Note: 2-unit courses may be offered in seven-and-a-half week blocks.		
ARCH 598abzL	Landscape Architecture Directed Design		PPD 525	Statistics and Arguing from Data	2	<i>Electives:</i> 8 units of elective courses taken within the School of Policy, Planning and Development.		
	Research	4-8-0	PPD 526	Comparative International Development	2	Dual degree students, like all other M.Pl. students, must take a comprehensive examination and fulfill the internship requirement.		
Electives		10	PPD 527	The Social Context of Planning	2			

Courses of Instruction

ARCHITECTURE (ARCH)

The terms indicated are *expected* but are not *guaranteed*. For courses offered during any given term, consult the *Schedule of Classes*.

102abL Architectural Design I (4-4, FaSpSm)

Introduction to principles and processes; sequence of exercises emphasizing development of basic skills, ideas, and techniques used in the design of simplified architectural projects.

105L Fundamentals of Design Communication (2)

Visual communication techniques applicable to the design of the built environment; drawing, photography, modeling.

106x Workshop in Architecture (2, Fa)

Introduction to the ways architecture is created and understood, for minors and non-majors. Hands-on discussion and laboratory session with some drawing and model building. Not available for credit to architecture majors.

114 Architecture: Culture and Community (2, Fa)

Introduction to the ways architecture represents aspirations of culture, satisfies practical and spiritual needs, shapes the social and urban environment, and helps preserve the planet.

202abL Architectural Design II (6-6, FaSpSm)

Continuing development of principles and processes; sequence of projects selected to broaden awareness of design issues at various scales in the urban context. *Prerequisite:* ARCH 102bL or departmental approval.

205abL Building Science I (4-4, FaSp)

The process and communication of building design: physical building shell, systems for structure, enclosure, and space ordering. *Prerequisite:* CE 107.

206 Shelter (4, Fa)

Introduction to issues, processes, and roles of the individual in relation to present and future shelter needs and aspirations.

207ab Computer Applications in Architecture (2-2, FaSp)

Introduction for the non-programmer to the uses of the computer in architecture, including the application of existing programs and their implications for design. Lecture and laboratory. *a:* Overview and use of software types. *b:* Management of computer systems. *Prerequisite:* ARCH 207a or departmental approval.

209 Modern Housing (3, 2 years, Sp)

Review of 20th century, international housing by country and building type; the evolution of building forms; American housing problems.

211 Materials and Methods of Building Construction (3, Sp)

Basic considerations and design implications of the problem of determination of the materials and construction details and processes for buildings.

213ab Building Structures and Seismic Design (3-3, FaSp)

a: Investigation and design of elements and systems for building structures; applied mechanics, strength of materials, structural investigation as a design tool. *b:* Investigation and design of structure systems: their resistance to seismic and wind forces and integration with architectural design for synergy of form and structure. *Recommended preparation:* PHYS 125 and MATH 108.

214ab History of Architecture (4-4, FaSp)

History of building and cities, social, political, technical, formal, aesthetic dimensions in western and non-western traditions: *a:* antiquity through the Middle Ages; *b:* Renaissance to present.

215 Design for the Thermal and Atmospheric Environment (3, Fa)

Ideas, problems, and computations related to the design of buildings in response to the thermal and atmospheric environment; passive solar systems, mechanical control systems.

220x The Architect's Sketchbook (2, FaSp)

The architect's sketchbook as a portable laboratory for perceiving and documenting space introduces the study of the built environment. On-site sessions develop drawing, observation, and visualization skills. Not for professional elective credit for architecture majors.

260L Landscape Architecture Design I (6, Sp)

Development of principles and processes for the design of gardens and parks and the definition of open space in the built environment. *Prerequisite:* ARCH 202a.

302abL Architectural Design III (a: 6, Fa; b: 6, Sp)

Special integrative year including design issues relating to housing. *Prerequisite:* ARCH 202bL.

304x Intensive Survey: Prehistory to the Present (4)

An intensive historical overview of architecture from prehistory to the present, emphasizing interrelationships of various global cultures and how social considerations were translated into form. Not available for credit to architecture majors.

305abL Building Science II (4-4, FaSp) The design of a building as a complex of interacting systems; relations of subsystems; influences of production and marketing on design. *Prerequisite:* ARCH 205abL.

312 Urban Form and Architecture in Italy (2, Fa) Historical overview and theoretical discussion of selected cities, urban spaces and buildings from ancient Rome to the present in Italy. *Prerequisite:* for Milan/Como program.

313 Design of Building Structures (3, Fa) Problems and processes of design of building structures; structural investigation for design; codes and standards; design of elements and systems of wood, steel, masonry, and concrete for gravity and lateral loads. *Prerequisite:* ARCH 213a.

314 Theory and Criticism: Recent Trends and Developments (3, Fa) Examination of the issues and images, the polemics and personalities that are animating current architectural discourse and practice. *Prerequisite:* ARCH 214b or departmental approval.

315 Design for the Luminous and Sonic Environment (3, Sp) Ideas, problems, and computations related to the design of buildings in response to the luminous and sonic environment.

316 Place and Culture (3, FaSpSm) (Study abroad programs only) Study of the relationships between places and culture through readings, lectures, discussion and weekly field trips.

322 Great Houses of Los Angeles (4, FaSp) An introduction to the architectural philosophies of five influential California architects through readings and site visits.

326 The Modern Movement in Architecture (4, Sp) Major theories of modern architecture are presented by studying the work of masters such as: Gropius, Mies van der Rohe, Corbusier, and Kahn.

341 History of Italian Architecture 1400-1990 (4, Sp) Introduction to the important buildings, architects and architectural movements in Italy from the Renaissance to the present.

360aLbL Landscape Architecture Design II (a: 6, Fa; b: 6, Sp) *a:* Principles, policies and practice of planned community design focusing on site planning. *Prerequisite:* ARCH 260. *b:* Principles and design of conservation and enhancement of cultural and natural resources. Studio investigates historic landscape landmarks, conservation programs and urban landscape renewal. *Prerequisite:* ARCH 360a.

361L Ecological Factors in Design (3, Fa) Lectures, laboratory exercises and field trips introduce basic knowledge of incorporating ecological factors in urban design and interaction of landscape science with the human environment.

362 Landscape Architecture Construction (3, Sp) An investigation of construction processes, horizontal and vertical control of space, site detailing control of space, site detailing and materials and construction drawings. *Prerequisite:* ARCH 211 and ARCH 213a.

363 Plant Material Identification: Horticulture (4, Fa) Introduction to 300 species of plantings. Learn visual characteristics, nomenclature, cultural considerations, and design applications through visits to existing gardens.

364 Materials and Methods of Landscape Architecture (3, Fa) Aesthetic and ecological concepts for planting design. Methods of selecting appropriate plants for site development and an understanding of irrigation techniques for a given site. *Prerequisite:* ARCH 363.

365 History of Landscape Architecture (4, Sp) Provides understanding of design of landscape in Western world. Includes case studies on general specific projects. Students develop personal theory of landscape design.

366 Nature Landscape and Gardens in Non-Western Cultures (4, Sp) An investigation into landscape as cultural interpretation of nature, and the representation of landscape as garden in Asian, Islamic, and Pre-Columbian American civilizations.

375 The Urban Neighborhood (4, Fa) Enroll in URBN 375.

390 Special Problems (1-4, FaSp) Supervised, individual studies. No more than one registration permitted. Enrollment by petition only.

402abCL Architectural Design IV (6-6-6, FaSpSm) Selected areas of specialization; three projects chosen with advisement from a variety of studio offerings that concentrate on different areas of vital concern. *Prerequisite:* ARCH 302bL.

404 Topics in Modern Architecture in Southern California (3, FaSp) Investigation of modern architecture in southern California within its cultural and historic contexts.

405abL Building Science III (4-4, FaSp) Design of building systems as an experimental process. *Prerequisite:* ARCH 305abL.

407 Advanced Computer Applications (4, Fa) Investigation of computer graphic applications, emphasizing the role of computers in helping designers create and communicate using color (rendering), form (modeling), and time (animation) and the implications of future technological advancements. *Prerequisite:* ARCH 207a and ARCH 207b, CADD studio or departmental approval.

410 Computer Transformations (2, FaSp) To explore the potential of computer-integrated design software; to develop techniques for critical analysis of architectural precedents; to expand the ability to visualize options; to expand perception; and to learn the basics of computer-integrated design. *Prerequisite:* 202b.

411 Architectural Technology (3, Sp) Architectural design considered as a technological problem; influence of technology on design; buildings as integrated sets of subsystems. *Prerequisite:* ARCH 313.

416 Architecture and Urbanism in France (2, Sp) Provides an understanding of the cities and buildings of France. Includes case studies as specific places, historical background for development of personal design theory. Open to architecture students (majors and minors) at third year and above.

417 Computer Programming in Architecture (3, Fa) Principles underlying computer programming, emphasizing algorithms, procedures, and program structures applicable to architecture.

418 Designing with Natural Forces (3, Fa) Investigation of natural force effects and their relationships to architecture; laboratory work includes drawing, photography, model building and tests on models.

420 Visual Communication and Graphic Expression (3, Fa) An exploratory study of fundamental and innovative visual communication principles and graphic expression techniques to facilitate the design enquiry process for architects. *Prerequisite:* ARCH 302L.

422 Architectural Photography (2, FaSp) Perceiving and documenting the built environment through the perspective and frame of the camera. Abilities with 35mm and large format cameras, lighting, and black and white lab techniques will be developed. *Recommended preparation:* knowledge of 35mm camera.

423 Light, Color and the Character of Material (2, FaSp) Color theory, constructed drawings, constructed shadows, descriptive geometry, constructed perspective drawing, and layered wash techniques lead to experimentation with methods representing materiality and construction in design projects.

Prerequisite: ARCH 105L.

424L Field Studies in Architecture

(2, FaSpSm) Field studies using direct observation, site recordings/documentation, analysis and evaluation supplemented by discussions and readings in architecture. Department approval. *Recommended preparation:* core curriculum.

425L Field Studies in Urbanism (2, FaSpSm)

Field studies using direct observation, site recordings/documentation, analysis and evaluation supplemented by discussions and readings in urbanism. Departmental approval. *Recommended preparation:* core curriculum.

426L Field Studies in Tectonics (2, FaSpSm)

Field studies using direct observation, site recordings/documentation, analysis and evaluation supplemented by discussions and readings in tectonics. Departmental approval. *Recommended preparation:* core curriculum.

430 Design Teaching Methods (2, FaSp)

The teaching of architectural design is introduced through readings, seminar discussions, and the observation of teaching in action. In addition to a one hour per week seminar, each student will participate in a design practicum. *Prerequisite:* ARCH 302L.

432 People, Places and Culture: Architecture of the Public Realm (4, Sp)

Critical observation of the architecture of public buildings and places and the importance of design in promoting a better contemporary public life.

440m Literature and the Urban Experience

(4, Fa) Post-industrial revolution urban environments and dynamic relationships in cities such as Manchester, Paris, St. Petersburg, New York, and Los Angeles, as revealed in novels, architecture, and urban forms.

Prerequisite: departmental approval.

441 A History of Architectural Theory:

1400-1914 (2, Sp) A seminar on architectural theory from Alberti to Scott, reviewing primary texts and subsequent criticisms.

442m Women's Spaces in History: "Hussies," "Harems" and "Housewives" (4, Sp)

Methods for studying patterns of spatial differentiation of women throughout history from home to city embodied in gender specific language and gendered spaces.

450 Fundamentals of Historic Preservation

(4, Fa) Concepts and strategies for preservation of significant elements of the built environment: buildings, sites and communities as revealed by reading, site visits and case studies.

454 Contemporary Asian Architecture (4)

Exploration of various "Asian" architectures, comparisons of areas, identifying current trends and impact of Asia on Southern California and Los Angeles.

460L Landscape Planning Studio (6, Fa)

Studio examining basic concepts and stimulating ecological landscape project planning. Preparation for landscape project and land management project. *Prerequisite:* ARCH 360b.

461L Landscape Architecture Comprehensive Project (6, Sp)

Preparation of an individual comprehensive design project under a faculty advisor to demonstrate knowledge of landscape architecture principles and professional skills. *Prerequisite:* ARCH 460L.

463 Plant Material Identification: California Plant Communities (4, Sp)

Expand plant material vocabulary to include native plants of Southern California. Emphasis on bioengineering techniques for site design. *Prerequisite:* ARCH 363.

475 Urban Practicum (4, Sp)

Enroll in URBN 475.

490x Directed Research (2-8, max 8, FaSpSm)

Individual research and readings. Not available for graduate credit. *Prerequisite:* departmental approval.

499 Special Topics (2-4, max 8, FaSpSm)

Selected topics in various specialty areas of architecture.

501 Independent Study (2, Sp)

Concurrent academic research and documentation on a subject related to the comprehensive design studio, providing for independent study and the production of a written and illustrated paper. *Prerequisite:* ARCH 402cL; *concurrent enrollment:* ARCH 502aL.

502abL Architectural Design V (6-0, SpSm)

The final comprehensive architectural project under the guidance of a faculty advisor to demonstrate architectural knowledge, skills, and professional interests and goals. Graded IP/L. *a: Prerequisite:* ARCH 402aL; *corequisite:* ARCH 501; *b: Prerequisite:* ARCH 502b.

505abL Graduate Architecture Design

(6-6, FaSp) Emphasis on comprehensive architectural design; attention to theories and skills appropriate for practice in contemporary urban conditions. Open to graduate architecture majors only. *Prerequisite:* a Bachelor of Science degree in Architecture or its equivalent; *recommended preparation:* six semesters of architecture design.

507 Theories of Computer Technology

(3, Sp) Fundamental theories and meanings of computation as a technique in architectural design. Lecture/discussion.

511L Seminar: Building Systems (4, Fa)

Advanced study of construction system development within the architectural design context; processes and issues of selection, evaluation, optimization, integration, design control, and innovation. *Prerequisite:* departmental approval.

513L Seminar: Advanced Structures (4, Fa)

Issues and problems in the development of structural systems for buildings; design criteria, system choice, design development, optimization, subsystem integration. *Prerequisite:* departmental approval.

515L Seminar: Advanced Environmental Systems (4, Sp)

A compressed course in design criteria and calculation methods for mechanical and passive solar systems (loads, plant system, duct, and storage sizing) and lighting and acoustics (CIE and IES methods, dBA and NC systems). *Prerequisite:* departmental approval.

520 Professional Practice: Pre-Design (2, Fa)

Design methodology, typology programming, site analysis, budget formulation and proforma procedures.

521 Professional Practice: Legal and

Economic Context (2, Fa) The laws and regulations that affect architecture as well as building economics and financing.

522 Professional Practice: Project and Office

Administration (2, Sp) Project and office management, emphasizing professional services and professional ethics as well as project responsibilities during design and construction.

523 Professional Practice: Project Documentation (2, Sp) Development of comprehensive project documentation, detailing, specifications, drawing formats and organizations.

524 Professional Practicum (1, max 2, Sm) Comparative studies of professional practice between U.S. firms and firms in other countries. Open to international upper-division and graduate architecture students only. Graded CR/NC. *Prerequisite:* ARCH 302*bl*.

531 The Natural Landscape (3, 2 years, Fa) Lectures, laboratory exercises and field trips introducing basic knowledge of the continually transforming landscape as a base for human settlement.

532 Elements of the Urban Landscape (2, Sp) Study of the basic spatial and infrastructure elements of the city, and how urban places are formed. Typological analysis of buildings, open space, and urban patterns.

533 Urban Landscape Case Studies (2, Sp) Lectures, discussion, and individual research on the physical, formal, and spatial characteristics of historical urban centers.

535ab Materials and Methods for Landscape Architecture (3-3, Sp) Introduction to materials of landscape construction, including plant species and planting design, site grading and drainage, surface and building materials and assemblies.

536 The Landscape Planning Process (4) Investigation through graphic, verbal, and written methods of the potential of sites for future development. Sites vary in size. Establish criteria based upon ecological principles and alternative development.

542abl Landscape Architecture Design (6-6, FaSp) Projects in complex urban settings; collaboration with students in related fields; emphasis on development of integrative schematic proposals as well as detailed open space design.

550 Historic Preservation Management, Planning and Development (4, Sp) Preservation practice within an economic, political and cultural context. The regulatory environment, public advocacy and policy, development, heritage tourism, environmental sustainability, cultural diversity and interpretation.

551 Conservation Methods and Materials (4, Fa) Concepts and techniques for building conservation including identification of treatments, recordation and research, material properties and behavior, building forensics, and implementation of preservation projects.

552 Introduction to Historic Site Documentation (2, Fa) Survey of basic guidelines and standards for documentation in historic preservation, including cultural resource surveys, historic structures reports and Historic American Building Survey and Historic American Engineering Record recordation.

553 History of American Architecture and Urbanism (4, Fa) History of American architecture and urbanism from prehistory to World War II examined in relation to European influences and indigenous developments. (Duplicates credit in former ARCH 409).

561 Architecture in the Urban Landscape: Projects and Places (2, Fa) Study of the basic spatial and infrastructure elements of the city, and how urban places are formed: Focus on incremental development, public-private collaboration, community incentives and controls, project implementation strategies. (Duplicates credit in former ARCH 532*b*.)

563 Architecture in the Urban Landscape: Comparative Theories (2, Sp) A comparative study of design theories of the physical, formal and spatial characteristics of historic city types from ancient to modern. (Duplicates credit in former ARCH 533*b*.)

590 Directed Research (1-12, FaSpSm) Research leading to the master's degree. Maximum units which may be applied to the degree to be determined by the department. Graded CR/NC.

596 Building Science Thesis Preparation (1, Fa) Exploration of topics leading to the development of a thesis prospectus. Topics may be in the areas of building structures, seismic design, environmental control, passive and active energy, or other relevant topics.

597abzL Landscape Architecture Thesis Option I (4-8-0, FaSpSm) Field studies and thesis for the Master of Landscape Architecture degree. Credit on completion of thesis. Graded IP/CR/NC.

598abzL Landscape Architecture Directed Design Research (4-8-0, FaSpSm) Directed design research option for the Master of Landscape Architecture degree. Credit on acceptance of research project. Graded IP/CR/NC.

599 Special Topics (2-4, max 8, FaSpSm) Selected topics in various specialty areas of architecture.

605abl Graduate Architecture Design (6-6, FaSp) Development of advanced skills and theoretical knowledge about urban architectural issues: *a*: a series of projects emphasizing the interaction between general principles and local sites; *b*: a major urban project in Los Angeles.

613L Seminar: Structures Research (4, Fa) An overview of research topics in building structures; detailed investigation of selected major issues. *Prerequisite:* ARCH 513*L*.

615L Seminar: Environmental Systems Research (4, Sp) A detailed examination of current issues in the thermal, acoustical, and radiant environment; recent developments in criteria, systems, controls, design tools and simulations; an understanding of the relationships between environmental factors, economics, and architectural goals. *Prerequisite:* ARCH 515*L*.

630 Landscape Architecture Practice (3, 2 years, Sp) Introduction to the activities, principles, and ethics of professional practice.

690abl Directed Research (a: 2-8; b: 2-8, FaSpSm) Graded CR/NC.

691abz Historic Preservation Thesis Preparation and Thesis (2-6-0, FaSp) Introduction to, and exploration of, topics leading to the development of a thesis prospectus and directed research towards the completion of the master's thesis in historic preservation. Credit on acceptance of thesis. Registration restricted to Master of Historic Preservation students who have satisfactorily completed 12 hours of graduate course work and have permission of the Program Director. Graded IP/CR/NC. *Prerequisite:* ARCH 553, ARCH 450.

692abzL Building Science Thesis (6-8-0, FaSpSm) Research and thesis for the Master of Building Science degree. Credit on completion of thesis. Graded IP/CR/NC. *Prerequisite:* ARCH 596.

693abzL M.Arch. Thesis, Option I (4-8-0, FaSpSm) Directed research option for M.Arch. degree. Credit on acceptance of research project. Graded IP/CR/NC.

695abzL M.Arch. Thesis, Option II (4-8-0, FaSpSm) Design thesis for the Master of Architecture degree. Credit on acceptance of thesis. Graded IP/CR/NC.

696abcZL Building Science Thesis (1-6-8-0)

Research and thesis for the Master of Building Science degree. Credit on acceptance of thesis. Graded IP/CR/NC.

697abcZL M.L.Arch. Thesis, Option II

(3-3-6-0) Field studies and thesis for the M.L.Arch. degree. Credit on completion of thesis. Graded IP/CR/NC.

698abcZL M.L.Arch. Thesis, Option I

(3-3-6-0) Directed research option for the M.L.Arch. degree. Credit on acceptance of research project. Graded IP/CR/NC

URBAN NEIGHBORHOOD STUDIES (URBN)**375 The Urban Neighborhood (4, Fa)**

Understanding neighborhoods as the fundamental places of everyday urban life from the perspective of the fields of architecture, education, planning and social work. (Duplicates credit in former ARCH 375.)

475 Urban Practicum (4, Sp) Critical assessment of existing urban neighborhoods as a basis for proposing positive social and physical interventions. (Duplicates credit in former ARCH 475.) *Recommended preparation:* URBN 375.



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