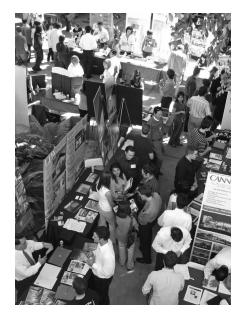
USC School of Architecture



With its Los Angeles location, the USC School of Architecture is able to maintain strong connections with the community of practicing architects in Southern California. Each year, the school's annual Career Connections Fair allows students to showcase their talents for architectural firm representatives, many of them USC alumni, and pursue internship and job opportunities.

he USC School of Architecture offers undergraduate, graduate and doctoral education in architecture and architectural studies, landscape architecture, historic preservation and building science. Its faculty is active in professional practice, in design research, in the supervision of programs at the Gamble House and Freeman 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 21st century growth and change. In such an environment the possibilities for teaching and learning are extraordinary.

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 USC Roski School of Fine Arts and the Fisher Museum of Art.

USC School of Architecture Watt Hall 204 (213) 740-2723 FAX: (213) 740-8884 arch.usc.edu

Administration

Qingyun Ma, M.Arch. *Dean*

Amy Murphy, M.F.A. *Vice Dean*

Douglas E. Noble, Ph.D. *Chair, Ph.D. Program*

John V. Mutlow, M.Arch. (U.D.) *Chair, Graduate Programs*

Kim Coleman, M.Arch. *Chair, Undergraduate Programs*

Eui-Sung Yi, M.Arch.

Director, Master of Architecture Programs

Marc Schiler, LC, M.S.Arch.Sci. Director, Master of Building Science Program

Kenneth Breisch, Ph.D. Director, Graduate Programs in Historic Preservation

Robert S. Harris, M.F.A. (Arch.) Director, Master of Landscape Architecture Program

Edward R. Bosley, M.B.A. *James N. Gamble Director of the Gamble House*

Faculty

Della and Harry MacDonald Dean's Chair in Architecture: Qingyun Ma, M.Arch.

MacDonald and Diane Rusling Becket Professor of Community Design: Charles A. Lagreco, M.F.A. (Arch.)

Professors: Kim Coleman, M.Arch.; Diane Ghirardo, Ph.D.; John V. Mutlow, M.Arch. (U.D.); Victor Regnier, M.Arch.*; Goetz Schierle, M.Arch., Ph.D.Arch.; Marc Schiler, M.Arch.Sci.; Roger Sherwood, M.S.Arch., M.C.R.P.; James Steele, Ph.D.

Associate Professors: Charles Lagreco, M.F.A. (Arch.); Graeme M. Morland, Dipl.Arch.; Amy Murphy, M.F.A.; Douglas E. Noble, Ph.D.

Assistant Professors: Kara Bartelt, M.Arch.; Gail Peter Borden, M.Arch.; John Enright, M.Arch.; Karen M. Kensek, M.Arch.; Thomas Spiegelhalter, Dipl. Arch.

Visiting Professor: Mark Cigolle, M.Arch.

Visiting Associate Professors: Gerdo Aquino, M.L.Arch.; Alice Kimm, M.Arch.; Eui-Sung Yi, M.Arch.

Visiting Assistant Professor: Rachel Berney, Ph.D.

Associate Professor of the Practice of Architecture: Kenneth Breisch, Ph.D.

Assistant Professors of the Practice of Architecture: Janek Tabencki Dombrowa; Gerald Knowles, M.Arch.; Michael Lehrer, M.Arch.; Lee Olvera, M.Arch.; Paul Tang, M.Arch.; Selwyn Ting, M.Arch.

Adjunct Professors: Scott Johnson, M.Arch.; Stefanos Polyzoides, M.Arch., M.U.P.

Adjunct Associate Professors: Douglas A. Campbell, M.L.Arch.; Regula F. Campbell, M.Arch.; Arthur Golding, M.Arch.; T. Jeff Guh, Ph.D.; James Tyler, B.F.A., B.Arch.; Edwin Woll, Ph.D.; Dimitry Vergun, M.S.

Adjunct Assistant Professors: Valery Augustin, M.Arch.; Michael Chung, M.Arch.; Andrew Liang, M.Arch.; Erik Mar, M.Arch.; Doris Sung, M.Arch.; Warren Techentin, M.Arch.; Roland Wahlroos-Ritter, Dipl. Ing.

Lecturers: Jeffrey Allsbrook, M.Arch.; Michael Arden, M.A.; Tigran Ayrapetyan, M.S.; Victoria Turkel-Boehner, Ph.D.; Vinayak Bharne, M.Arch.; Mark Bittoni, M.Arch.; Mary Chou, M.Arch.; Mina Mei-Szu Chow, M.Arch.; Annie Chu, M.S. (Arch.); Mario Cipresso, M.Arch.; Frank Clementi, B.Arch.; Christopher Coe, M.Arch.; Paul Comstock; Richard Corsini, M.Arch.; John R. Dale, S.M.Arch.Sci.; Katherine Diamond, B.Arch.; Liz Falletta, M.Arch.; Hunter Fleetwood, B.Arch.; Miller Fong, B.A.Arch.; David Gray, M.Arch.; Arianne Groth, M.Arch.; Anthony Guida, M.Arch.; Eric Haas, M.Arch.; Peyton Hall, M.E.D.; Ana Henton, M.Arch.; Heather Hoeksema, M.Arch.; Michael Hricak, M.Arch.; Albert Huang, B.Arch.; Ying-Yu Hung, M.L.Arch.; Ali Jeevanjee, M.Arch.; Christoph Kapeller, M.Arch.; Shruti Kasarekar, M.S.; Jeffrey Kim, M.S.; Christopher King, M.Arch.; Steffen Leisner, M.Arch.; Kenneth Lewis, B.S.Arch.; Rebecca Lowry, M.Arch.; David C. Martin, M.Arch.; Leonard Marvin, M.B.A.; Lauren Matchison, M.A.; Christy Johnson McAvoy, M.A.; Mark McVay, M.Arch.; Murray Milne, M.Arch., M.S.; Scott Mitchell, M.Arch.; Sandra Novales, M.B.S.; Robert Perry, M.L.A.; Mark Rios, M.L.Arch.; Trudi Sandmeier, M.A.; Susanna Seierup, M.Arch.; Janice Shimizu, M.Arch.; Niloofar Shokoohy, B.Arch.; Joe Sturges, B.F.A.; Doris Sung, M.Arch.; Linda Taalman, B.Arch.; Rennie Tang, M.S.; Elizabeth Valmont, M.B.S.; Christopher Warren, M.Arch.; Chet Widom, B.Arch.; Denise Zacky-Popoch, M.Arch.

Emeritus Professors: James Ambrose, M.S.; Robert Harris, M.F.A. (Arch.); Samuel T. Hurst, M.Arch.; 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 Science in Architectural Studies: a four-year undergraduate non-professional architectural studies degree program providing specialization in related fields and an alternative path to graduate studies in architecture and other design fields.

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. Not available for architecture majors.

Minor in Landscape Architecture: provides students with the ability to integrate the natural and cultural profession of landscape architecture into their course of study. Not available for architecture majors.

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

Master of Architecture (two tracks): The first track is a 48-unit, three-semester program for students who hold a first professional degree from an accredited school of architecture. The second track is a 64-unit, two-year accredited degree for students holding a pre-professional degree with a major in architecture.

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 48-unit, three-semester curriculum for students who hold an accredited Bachelor of Landscape Architecture degree or the equivalent; a 64-unit, four-semester curriculum for students who hold a first non-accredited degree in architecture, landscape architecture or environmental design; a 96-unit, six-semester curriculum for students with no prior degree in architecture, landscape architecture or environmental design.

Master of Building Science: a 48-unit, two-year program for applicants who hold an architecture, engineering or science-related degree (e.g., Bachelor of Architecture, Bachelor of Architectural Engineering, Bachelor of Science in Engineering, Environmental Studies, Physics or Mathematics). Students with five-year professional degrees in architecture and a minimum of five years of experience may be given advanced standing.

Dual Degree in Architecture and Planning: a 72-unit program leading to the post-professional 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.

Doctor of Philosophy in Architecture: This program is designed to prepare individuals for university level teaching and professional research and for leadership positions in industry and professional architectural practice.

Certificate in Building Science: This program is intended as a supplementary credential for students enrolled in graduate course work in architecture, landscape architecture, historic preservation, urban planning or related disciplines, and also for practicing design and planning professionals with undergraduate or graduate degrees and related experience.

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.

Certificate in Landscape Architecture Studies: This program provides an opportunity for the designers of the built environment to obtain expertise in issues related to the spaces that surround buildings and the open public spaces of the city.

Certificate in Urbanism and the Built Environment: The focus of this program is on the architecture and urban environment in cities throughout the world where conditions of increasing density require design initiatives that support amenity, sustainability and cultural meaning.

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 three types of degrees, the Bachelor of Architecture, the Master of Architecture and the Doctor of Architecture. A program may be granted a six-year, three-year or two-year

term of accreditation, depending on the extent of its degree of conformance with established educational standards.

Master's 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 Bachelor of Architecture and Master of Architecture "+2" programs are accredited by the National Architecture Accrediting Board.

National Landscape Architecture Accreditation Board Statement

The Master of Landscape Architecture degree program includes three curricula. Curriculum +3 for students with no prior design education, introduced in 2009-10, and Curriculum +2 for students admitted with advanced standing, initiated in 2008-09, have "Candidacy Status" in the process of accreditation by the Landscape Architecture Accreditation Board. Curriculum +1.5 for students with advanced placement is a post-professional study program and is not subject to accreditation. Information about landscape architecture education and accreditation in the United States may be found online at www.asla.org/Education.aspx.

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 complete the university application and submit it to the USC Office of Admission along with Scholastic Aptitude Test (SAT) or other test scores. All applicants, including international students, must submit a portfolio.

Admission with Advanced Placement

It is possible, in selected instances, that a transfer student from an accredited community college or other university may be eligible for advanced placement at the second-year level 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 Courses

A summer design studio and drawing course allows highly qualified students transferring from community college or other university programs to be evaluated for advanced placement in the fall semester. Applicants must submit a university application and portfolio by February 1 for consideration. During the summer transfer courses, students must demonstrate significant design and drawing skills to justify advanced placement. Successfully completing these summer transfer courses allows students to reduce the required 10-semester design sequence by two semesters, reducing USC residency to four years. This either provides for advanced placement into the second year or gives credit for ARCH 102abL and ARCH 105L if these courses are passed with grades of B or above. For more information, 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 may be considered for placement 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 student advisors for the benefit of all students in the school. Soon after being accepted, new students are advised to make an appointment for pre-registration advisement. A complete record is kept of the progress for each student while in attendance. An individual appointment with an advisor may be scheduled at any time during the academic year. In addition, students are strongly encouraged to attend a university orientation session.

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, ARCH 202abL, ARCH 302abL, ARCH 402abcL, ARCH 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 requirements, MATH 108 and the PHYS 125L requirement, on a pass/no pass basis. No more than 4 units of pass/no pass courses may be applied to general education 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.

Schedule Choices

Students in upper division (ARCH 402abcL) may substitute any fall or spring semester by completing degree requirements, including design studio, by enrolling during summer session. This substitution does not provide for acceleration of the degree but does allow for make up so that students may get back on schedule for the five-year degree.

Time Limits

ARCH 202aL

ARCH 213a

ARCH 214b

General Education

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 S	EMESTER	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, SECON	D SEMESTER	16
FIRST YEAR, SECON ARCH 102bL	D SEMESTER Architectural Design I	UNITS
ARCH 102bL	Architectural Design I	UNITS 4 4
ARCH 102bL ARCH 214a	Architectural Design I History of Architecture Physics for Architects	UNITS 4
ARCH 102bL ARCH 214a PHYS 125L**	Architectural Design I History of Architecture Physics for Architects	UNITS 4 4
ARCH 102bL ARCH 214a PHYS 125L** General Education	Architectural Design I History of Architecture Physics for Architects on, or	UNITS 4 4 4

Architectural Design II

History of Architecture

Building Structures

and Seismic Design

6

4

4

17

SECOND YEAR, SECO	ND SEMESTER	UNITS
ARCH 202bL ARCH 211	Architectural Design II Materials and Methods	6
ARCH 213b	of Building Construction Building Structures	n 3
	and Seismic Design	3
General Education	ı	4
		16
THIRD YEAR, FIRST SE	MESTER	UNITS
ARCH 215	Design for the Thermal and Atmospheric	
	Environment	3
ARCH 302aL	Architectural Design III	6
ARCH 313	Design of Building	2
General Education	Structures	3
Ocheral Education	1	
		16
THIRD YEAR, SECOND	SEMESTER	UNITS
ARCH 302bL	Architectural Design III	6
ARCH 315	Design for the Luminou	
ARCH 411	and Sonic Environment Architectural	3
ARCH 411	Technology	3
General Education	0,	4
		16
FOURTH YEAR, FIRST	SEMESTER	UNITS
ARCH 314	History of Architecture:	
	Contemporary Issues	3
ARCH 402aL	Architectural Design IV	6
ARCH 525	Professional Practice:	
	Pre-Design, Project and Office Administration	2
Electives	Office Administration	3
Biccircs		
		16
FOURTH YEAR, SECOI		
ARCH 402bL	Architectural Design IV	16
	Architectural Design IV Professional Practice:	16
ARCH 402bL	Architectural Design IV Professional Practice: Legal and Economic	16
ARCH 402bL	Architectural Design IV Professional Practice: Legal and Economic Context, Project	16
ARCH 402bL	Architectural Design IV Professional Practice: Legal and Economic	16 UNITS 6
ARCH 402bL ARCH 526	Architectural Design IV Professional Practice: Legal and Economic Context, Project Documentation	16 UNITS 6
ARCH 402bL ARCH 526 WRIT 340	Architectural Design IV Professional Practice: Legal and Economic Context, Project Documentation	16 UNITS 6
ARCH 402bL ARCH 526 WRIT 340	Architectural Design IV Professional Practice: Legal and Economic Context, Project Documentation Advanced Writing	16 UNITS 6
ARCH 402bL ARCH 526 WRIT 340 Electives	Architectural Design IV Professional Practice: Legal and Economic Context, Project Documentation Advanced Writing	16 UNITS 6 3 4 3 16 UNITS
ARCH 402bL ARCH 526 WRIT 340 Electives	Architectural Design IV Professional Practice: Legal and Economic Context, Project Documentation Advanced Writing	16 UNITS 6 3 4 3 16

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FIFTH YEAR, SECON	D SEMESTER	UNITS
ARCH 501	Comprehensive Studio	
	Support and Enrichmen	t 2
ARCH 502aL	Architectural Design V	6
Electives		8
		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. The PHYS 125L requirement may also be fulfilled by PHYS 135abL; 4 units will be applied toward the B.Arch. and 4 will count as electives.

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; PHYS 125L; and WRIT 140 or WRIT 130.

Allocation of Elective Units

A total of 20 units of electives and a 4-unit diversity course is included toward completion of the 160 units for the degree.

Professional Electives

A minimum of 12 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) and physics (excluding PHYS 125L or PHYS 135abL). One of these courses must satisfy the diversity requirement.

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 program requires six courses in different categories, plus writing and diversity requirements, which together comprise the USC Core. See pages 60 and 245 for more information.

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 Science, Architectural Studies

The Bachelor of Science in Architectural Studies program begins intensively with architectural studies in the first two years and provides a mix of architectural and general university studies throughout the program. The curriculum includes a core program in the first two years identical to the Bachelor of Architecture professional degree program. The last two years provide the opportunity to explore many aspects of architecture and related fields and to develop individual strengths and interests. Students take an introductory course in specialization in the second year, which provides an introduction to related fields and alternative degree options. Students can elect to move into the four-year non-professional B.S. in Architectural Studies program with a degree plan identifying electives fulfilling an area of concentration. The program is concluded with a seminar with all degree candidates, allowing for collaborative work on areas of common interest.

Admission as a First Year Student

All applicants to the School of Architecture must complete the university application and submit it to the USC Office of Admission along with Scholastic Aptitude Test (SAT) or other test scores. All applicants, including international students, must submit a portfolio.

Admission with Advanced Placement

It is possible, in selected instances, that a transfer student from an accredited community college or other university may be eligible for advanced placement at the second-year level 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 summer design studio allows highly qualified students transferring from community college or other university programs to be evaluated for advanced placement in the fall semester. Applicants must submit a university application and portfolio by February 1 for consideration. During the summer studio, transfer students must demonstrate significant design and drawing skill to justify advanced placement. Transfer students who are admitted with fewer than 32 units of college level work and who have only limited drawing or design skills may be considered

for placement in the first year of the fouryear program. Previous academic work may in part be applied toward required and elective courses for the four-year B.S. in Architectural Studies program. For more information about this program, contact the school at (213) 740-2420.

Advisement

The School of Architecture maintains student advisors for the benefit of all students in the school. Soon after being accepted, new students are advised to make an appointment for pre-registration advisement. A complete record is kept of the progress for each student while in attendance. Appointments 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 studio is not considered sufficient for a continuation in the design studio sequence. Students must receive a grade of C (2.0) or above in each semester of design in order to continue in the design sequence. Students in the first two years of the program are required to repeat the course until such a grade is achieved.

Pass/No Pass Courses

Architecture students are permitted to take a maximum of 24 units of non-architecture electives, exclusive of the writing requirements, MATH 108 and the PHYS 125L requirement, on a pass/no pass option. No more than 4 units of pass/no pass courses may be applied to general education 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.

Time Limits

While there are no specific time limits for completing the B.S. in Architectural Studies 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.

Four-Year Curriculum for the Bachelor of Science in Architectural Studies Degree

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UNITS
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4
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4
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UNITS
UNITS
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3

SECOND YEAR, SECO	ND SEMESTER	UNITS
ARCH 202bL	Architectural Design II	6
ARCH 211	Materials and Methods	of
	Building Construction	3
ARCH 213b	Building Structures and	
	Seismic Design	3
ARCH 270	Introduction to	
	Architectural Studies	2
Elective		2
		16

THIRD YEAR, FIRST S	EMESTER	UNITS
ARCH 215	Design for the Thermal and Atmospheric	
	Environment	3
ARCH 313	Design of Building	
	Structures	3
WRIT 340	Advanced Writing, or	
General Education	n	4
Professional elect	ives	6
		16

THIRD YEAR, SECO	ND SEMESTER	UNITS
ARCH 315	Design for the Luminou	
	and Sonic Environment	3
ARCH 411	Architectural Technolog	y 3
General Educat	tion	4
Professional ele	ctives	6
		16
		10
FOURTH YEAR, FIR	ST SEMESTER	UNITS

ARCH 314	History of Architecture:	
	Contemporary Issues	3
ARCH 525	Professional Practice:	
	Pre-Design, Project	
	and Office Administration	3
General Education	n	4
Professional election	ives	6
		16

FOORTH TEAR, 3E	COND SEMIESTER	UNITS
ARCH 526	Professional Practice:	
	Legal and Economic	
	Context, Project	
	Documentation	3
ARCH 470	Capstone Seminar	4
General Educa	tion or elective	5
Professional ele	ectives	3
		15

LIMITS

Total minimum units required: 128

FOURTH YEAR SECOND SEMESTER

*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.

Requirements for B.S. in Architectural Studies degree

A total of 25 units of professional electives, including ARCH 470 Capstone Seminar, are required in an area of specialization, which must be selected from the accepted professional elective offerings in the School of Architecture. This is in addition to the core, elective and general education requirements of the Bachelor of Architecture degree, which are identical for the first two years of the Bachelor of Science in Architectural Studies.

In the third and fourth year of the program, the requirements for the Bachelor of Architecture design studios, ARCH 302abL and ARCH 402ab – 24 units – are changed to the professional electives requirement. The full degree requirements are described above.

Core Requirements

Students must complete the following core courses as a prelude to the upper division professional electives and degree requirements: ARCH 102abL, ARCH 105L, ARCH 114, ARCH 202abL, ARCH 211, ARCH 213ab, ARCH 214ab, and ARCH 270, MATH 108, PHYS 125L, and WRIT 140 or WRIT 130.

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 program requires six courses, in different categories, plus writing and diversity requirements, which together comprise the USC Core. See pages 60 and 245 for more information. 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. Others will take WRIT 140 in the fall and will have one additional free elective (4 units).

^{**}PHYS 125L fulfills the General Education requirement in Category III. The PHYS 125L requirement can also be fulfilled by PHYS 135abL; 4 units will be applied toward the B.S. and 4 will count as electives.

Bachelor of Landscape Architecture

The degree in landscape architecture provides the ability to critically examine and creatively respond to a wide array of environmental issues and purposes. New professionals must be equipped to take on the challenge of working in interdisciplinary fields, mediating between the goals and desires of diverse groups while soliciting their participation. Generating creative solutions for forming a supportive and humane urban environment requires certain fundamental skills. This program encourages development of students' skills and abilities so that they can flourish in a professional setting:

- Knowledge of the physical world and the interrelationships between humans and the natural systems of which they are part.
- The ability to define the critical issues of places and sites through inventory, analysis and resolution of physical, social and cultural forces and meanings.
- The ability to use knowledge and experience to creatively respond to the problems that confront them and the dedication to understand great purpose and to take effective action.
- The ability to effectively communicate with peoples of diverse backgrounds through both words and images.
- The ability to interact collaboratively with individuals, community groups, public agencies or large corporations.
- 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 in conjunction with general education 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 team-oriented to develop the ability to work collectively.

Curriculum

FIRST YEAR, FIRST S	EMESTER	UNITS
ARCH 102aL	Architectural Design I	4
ARCH 105L	Fundamentals of Design	ı
	Communication	2
ARCH 114	Architecture: Culture and	d
	Community	2
General		
Education*	Social Issues	4
WRIT 140*	Writing and Critical	
	Reasoning	4
		16
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FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 102bL	Architectural Design I	4
ARCH 211	Materials and Methods	of
	Building Construction	3
General Education		8
		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
		17

SECOND YEAR, SECO	ND SEMESTER	UNITS
ARCH 260L	Landscape Architecture	
	Design I	6
ARCH 362	Landscape Architecture	
	Construction	3
ARCH 363	Plant Material	
	Identification:	
	Horticulture	4
ARCH 465	History of Landscape	
	Architecture	4
		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	
GEOG 477	Water Resources	4
WRIT 340	Advanced Writing	4
WICH 1 3 10	U	
WIII 310		17
THIRD YEAR, SECON	ND SEMESTER	17
		1,
THIRD YEAR, SECON	ND SEMESTER Computer Applications in Architecture	1,
third year, secon	Computer Applications in Architecture	UNITS
third year, secon	Computer Applications	UNITS
third year, secon ARCH 207 ARCH 360bL	Computer Applications in Architecture Landscape Architecture	UNITS
THIRD YEAR, SECON	Computer Applications in Architecture Landscape Architecture Design II	UNITS
third year, secon ARCH 207 ARCH 360bL	Computer Applications in Architecture Landscape Architecture Design II Plant Material	UNITS
third year, secon ARCH 207 ARCH 360bL	Computer Applications in Architecture Landscape Architecture Design II Plant Material Identification:	UNITS
third year, secon ARCH 207 ARCH 360bL	Computer Applications in Architecture Landscape Architecture Design II Plant Material Identification: California Plant Communities	UNITS 2

FOURTH YEAR, FIRST SEMESTER		UNITS
ARCH 460L	Landscape Planning	
	Studio	6
ARCH 466	Nature Landscapes	
	and Gardens in	
	Non-Western Cultures	4
PPD 100	Los Angeles, The	
	Enduring Pueblo	4
General Education		4
		18

FOURTH YEAR, SECO	ND SEMESTER	UNITS
ARCH 461L	Landscape Architecture	
	Comprehensive Project	6
ARCH 525	Professional Practice:	
	Pre-Design, Project and	
	Office Administration	3
Electives		5
		14
Total units require	ed:	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.

Admission Requirements

Students in good academic standing who have completed the freshman year are eligible.

Course Requirements

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

REQUIRED COURSES	UN	VITS
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, historic preservation, computers and design, visual communication, landscape architecture, public places – urban spaces, housing or practice management. This minor is not available to architecture majors.

Minor in Landscape Architecture

The minor is intended to help students understand the role of landscape architecture as a means for the integration of natural systems and landscapes with cultural values and purposes. Studies about natural resources and their importance in the built environment are joined with studies of the art of the garden. Landscape design, literature, music, painting and sculpture will be presented as it relates to physical settings, patterns of inhabitation and cultural rituals and meanings. This is an excellent emphasis for students in environmental studies, civil engineering, planning and anthropology. This minor is not available to architecture majors.

Admission Requirements

Students in good academic standing who have completed the freshman year are eligible.

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	U	NITS
ARCH 106x	Workshop in Architecture	2
ARCH 361L	Ecological Factors in	
	Design	3
ARCH 465	History of Landscape	
	Architecture (Western	
	Tradition)	4

UPPER DIVISION COURSES (14 UNITS)		
ARCH 363	Plant Material Identification:	
	Horticulture	4
ARCH 364	Materials and Methods	
	of Landscape	
	Architecture	3
ARCH 432	People, Places and	
	Culture: Architecture	
	of the Public Realm	4
ARCH 466	Nature, Landscape	
	and Gardens in	
	Non-Western Cultures	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	3
ARCH 561	Architecture in the	
	Urban Landscape:	
	Projects and Places	2
ARCH 563	Architecture in the	
	Urban Landscape:	
	Comparative Theories	2

Non-architecture students must obtain written approval from their academic unit in order to take a 500-level course. For more information, call (213) 740-2090.

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. The minor is supported by the four "urban schools" of USC: Architecture, Education, Social Work, and Policy, Planning, and Development. See Interdisciplinary Programs, page 109, for requirements.

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 fore-front 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 15-unit, full semester of study includes courses in design; history and theory; technology; and cultural studies. Fourth- and fifth-year students are eligible for the program.

The Milan-Como Program is one of only 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 within Italy and throughout Europe to expose the students to the full range of historical and contemporary architecture.

Fall Semester in France

The school also offers a study abroad program in Saintes, France. The goal of the 15-unit full semester program in France is to provide a place for 14 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 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 Programs

The School of Architecture offers summer program options that allow students to complete a full semester course load that would typically be completed during a fall or spring semester. These options do not provide for acceleration of the degree but do allow for make up so that students may get back on schedule. Students who complete a full course load of architecture courses during the summer have the option of taking the following fall or spring semester off to travel or work and still graduate on schedule for the five-year degree.

Summer Semester in Asia

The School of Architecture offers a summer semester in Asia, split between two programs. The first of these, established in 1988, is based at the Universiti Malaya, but includes travel throughout Asia before arriving at Kuala Lumpur at the mid-term point. USC students will work on a studio project in collaboration with students from the School of Architecture at the Universiti Malaya as part of a full 15-unit, five-course curriculum.

The second program is also a full summer semester, sharing the same curricular requirements as the first, but with a distinctive travel experience in Asia.

The purpose of this two-section program is to offer students the 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 can be realized;
- become familiar with local practitioners in order 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 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.

Summer Graduate Studies Abroad

The School of Architecture offers programs for summer graduate study abroad. The purpose of the programs is to offer graduate architecture students the opportunity to study the built fabric of another culture first-hand and engage in a focused urban studies problem in that culture. The programs also strive to expand appreciation of the importance of development in the current world market and show practitioners USC graduates' ability to engage in and contribute to international development.

Exploration of Architecture Summer Program for High School Students

The School of Architecture offers two- and four-week programs for high school students (ages 15 or older) who have no previous experience but are interested in architecture. The program, which began in 1983, is particularly rewarding for students who are contemplating a career in architecture. However, all students find the exposure to the unique problem-solving methodologies of architecture a benefit regardless of their final career choice. Living on campus in a USC residence hall, high school students experience what it is like to be a university student. They participate in studio classes with professional critics and present their ideas in reviews attended by parents and friends. The program also exposes them, through case studies, sketching exercises and field trips, to some of the most dramatic and impressive historical and modern architecture of Los Angeles. International students have especially appreciated the opportunity to pursue this summer program of study that is not highly dependent on English language skills. Limited financial assistance is available.

Obtain program details by visiting the School of Architecture Web site or by calling (800) 281-8616.

Summer Program in Historic Preservation

This program offers 15 days of classes with noted experts from Southern California and the United States. Taken together the courses act as a general introduction to the field of historic preservation. In addition to examining the history and philosophy of the preservation movement as it has evolved during the past century, lectures and field trips to historic sites throughout the Los Angeles area will introduce students to a broad range of legal, economic, aesthetic and technical issues

associated with the documentation, conservation and interpretation of historic structures, landscapes and communities.

For more information, call (213) 821-2168.

The Building Science Program in Civil Engineering

The Sonny Astani 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 Viterbi School of Engineering, Civil Engineering, section of this catalogue, page 606, for further information.

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, students have 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.

Some of the world's most distinguished architects have lectured at USC. These include Frank Gehry, Mario Botta, Thom Mayne, Fumihiko Maki, Jean Nouvel, Will Bruder, Enrique Norten, Kazuyo Sejima, Rem Koolhaas, Shigeru Ban and Hans Hollein.

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.

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.

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 January 15. The university will continue to accept and consider applications submitted after January 15.

Following are the basic requirements for admission to the graduate programs: (1) the appropriate 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, if necessary, by further tests upon arrival on campus.

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.

*The Master of Building Science and Master of Historic Preservation programs accept 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 Admissions grants official admission.

Graduate Program Policies

Graduate students are expected to complete between 12 and 16 units per semester, spring and fall, depending on the program in which they are enrolled.

A minimum grade of C (2.0) is required in a course to receive graduate credit. A grade point average of at least B (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 a student does not meet these minimum grades the faculty member should meet with the student to provide timely advisory reviews.

Failure to complete program course work on schedule will result in the loss of financial awards from the School of Architecture and/ or may result in suspension from the program upon recommendation from the program director and approval by the Dean of the School of Architecture and the Associate Vice Provost for Graduate Programs. Additional semesters may be taken to complete the thesis or directed design research when appropriate.

All appeals will be reviewed initially by the director(s) of the appropriate graduate program and then by a committee consisting of all 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 Associate Vice Provost for Graduate Programs. All communications must be in writing.

Certificate in Building Science

Building science at USC recognizes that exemplary architecture requires a creative response to natural forces, based on informed good judgment in the areas of architectural technology. The Certificate in Building Science is intended as a supplementary credential for students enrolled in graduate course work in architecture, landscape architecture, historic preservation, urban planning

or related disciplines, and also for practicing design and planning professionals with undergraduate or graduate degrees and related experience.

Course Requirements

Completion of the certificate requires a minimum of 16 units. Students must take three core courses. Electives in building science may be taken to complete the program requirements.

REQUIRED COURSES		UNITS
Choose three of t	the following six courses:	
ARCH 511	Building Systems, or	
ARCH 611	Advanced Building	
	Systems Integration	4
ARCH 513L	Seminar: Advanced	
	Structures, or	
ARCH 613L	Seminar: Structures	
	Research	4
ARCH 515L	Seminar: Advanced	
	Environmental Systems	s, or
ARCH 615L	Seminar: Environmenta	1
	Systems Research	4
Elective(s) in Bu	ilding Science	4
SAMPLE ELECTIVES		UNITS
ARCH 507	Theories of Computer	
	Technology	3
ARCH 519	Sustainability in the	
	Environment:	

SAMIFLE ELECTIVES		UNITS
ARCH 507	Theories of Computer	
	Technology	3
ARCH 519	Sustainability in the	
	Environment:	
	Infrastructures,	
	Urban Landscapes,	
	and Buildings	3
ARCH 590	Directed Research, or	1-12
One from the list	of required courses	
that was not yet s	elected	4

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 549 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. Elective choices (if needed) must be approved by the program director. Students are encouraged to consider courses within the School of Architecture that are related to their interests, but may also choose courses from other programs within the university.

Certificate in Landscape Architecture Studies

This program is intended to introduce at the graduate level the basic subjects inherent to the field of landscape architecture: plant materials suitable to urban conditions; urban utility and transportation systems in relation to topography, natural drainage and pathways; plant and wildlife communities; as well as inquiries about landscape infrastructure and ecology, and the history of human settlement in the evolution of urban landscapes. Southern California and Los Angeles provide an exceptionally valuable natural and sociocultural laboratory for landscape architecture studies.

Course Requirements

Completion of the certificate program requires a minimum of 16 units. Students must take four core courses and select 5 units of electives from the approved list approved by the director of the graduate landscape architecture program.

CORE COURSES		UNITS
ARCH 531	The Natural Landscape	3
ARCH 533	Urban Landscape Case	
	Studies	2
ARCH 537	Urban Plant Ecology	3
ARCH 565	Global History of	
	Landscape Architecture	3
Electives, as app	roved by director	5

SAMPLE ELECTIVES	10	NITS
ARCH 530	Landscape Architecture	
	Practice	3
ARCH 532	Elements of the Urban	
	Landscape	2
ARCH 534	Landscape Intervention:	
	Construction Methods	3
ARCH 535	Landscape Reclaimation:	
	Construction Materials	3
ARCH 536	Landscape Planning	
	Process	4
ARCH 538	Urban Plant Ecology:	
	California Plant	
	Communities	3
ARCH 561	Architecture in the Urban	
	Landscape: Projects and	
	Places	2
ARCH 563	Architecture in the Urban	
	Landscape: Comparative	
	Theories	2
ARCH 566	Cross-Cultural Topics	
	in Landscape Architecture	
	History	3
	•	

Certificate in Urbanism and the Built Environment

The focus of this program is on the architecture and urban environment in cities throughout the world where conditions of increasing density require design initiatives that support amenity, sustainability and cultural meaning. The certificate is open to graduate students not pursuing a Master of Architecture degree.

Course Requirements

Completion of the certificate program requires a minimum of 16 units. Students must take five core courses and select 4 units of electives from the list approved by the director of the graduate architecture program.

CORE COURSES	UNI	TS
ARCH 532	Elements of the Urban	
	Landscape	2
ARCH 533	Urban Landscape Case	
	Studies	2
ARCH 553	History of American	
	Architecture and Urbanism	4
ARCH 561	Architecture in the Urban	
	Landscape: Projects and	
	Places	2
ARCH 563	Architecture in the Urban	
	Landscape: Comparative	
	Theories	2
Electives as appro	Theories oved by the director	
1.1	111001100	4
SAMPLE ELECTIVES	oved by the director	4
SAMPLE ELECTIVES	oved by the director UNI Seminar: Advanced	TS
SAMPLE ELECTIVES ARCH 515	Seminar: Advanced Environmental Systems	TS
SAMPLE ELECTIVES ARCH 515	oved by the director UNI Seminar: Advanced	4 TS 4
SAMPLE ELECTIVES ARCH 515 ARCH 536	Seminar: Advanced Environmental Systems The Landscape Planning	4 TS 4
SAMPLE ELECTIVES ARCH 515 ARCH 536	Seminar: Advanced Environmental Systems The Landscape Planning Process Historic Preservation	4 TS 4
SAMPLE ELECTIVES ARCH 515 ARCH 536	Seminar: Advanced Environmental Systems The Landscape Planning Process Historic Preservation Management, Planning	4 4 3
SAMPLE ELECTIVES ARCH 515 ARCH 536 ARCH 550	Seminar: Advanced Environmental Systems The Landscape Planning Process Historic Preservation Management, Planning and Development	4 4 3
SAMPLE ELECTIVES ARCH 515 ARCH 536 ARCH 550	Seminar: Advanced Environmental Systems The Landscape Planning Process Historic Preservation Management, Planning and Development History of American	4 3 4
SAMPLE ELECTIVES ARCH 515 ARCH 536 ARCH 550 ARCH 553	Seminar: Advanced Environmental Systems The Landscape Planning Process Historic Preservation Management, Planning and Development History of American Architecture and Urbanism	4 3 4 4
Electives as approsent to the second state of	Seminar: Advanced Environmental Systems The Landscape Planning Process Historic Preservation Management, Planning and Development History of American Architecture and Urbanism Advanced Building Systems	4 3 4 4
SAMPLE ELECTIVES ARCH 515 ARCH 536 ARCH 550 ARCH 553	Seminar: Advanced Environmental Systems The Landscape Planning Process Historic Preservation Management, Planning and Development History of American Architecture and Urbanism	4 3 4 4 6 6

Sustainable Cities Graduate Certificate

This multidisciplinary certificate program is open to USC students pursuing graduate degrees in disciplines including anthropology, architecture, biology, chemistry, communication, earth sciences, economics, education, engineering, geography, international relations, political science, public policy, sociology, urban planning and others. See Interdisciplinary Programs, page 111, for course requirements.

Master of Architecture

Programs

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

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

Admitted students must have a four-year architectural studies degree from: a U.S. school with an accredited professional architecture program; a U.S. school, that is accredited by a regional accrediting body, without

an accredited professional architecture program; or an international program that is deemed equivalent. All students must matriculate in the fall semester and 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 a total of 64 credit units including prerequisite Basic Studies and 48 units of graduate level courses including Advanced Studies and approved electives.

(1) Basic Studies (the following may be met by an equivalent course taken in an undergraduate program or as a Basic Studies requirement 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 History of Architecture:
Contemporary Issues, ARCH 315 Design
for the Luminous and Sonic Environment,
ARCH 402abL Architectural Design IV,
ARCH 411 Architectural Technology, ARCH
525 Professional Practice: Pre-Design, Project
and Office Administration, and ARCH 526
Professional Practice: Legal and Economic
Context Project Documentation.

- (2) Advanced Studies courses include: 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.
- (3) Electives: courses may be taken at the 400, 500 or 600 level.

Thesis or Directed Design Research Option M.Arch. +2 students may elect to complete an independent thesis or a directed design research project (DDR). An independent thesis or DDR 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

Sample Curriculi	um	
FIRST YEAR, FIRST S	SEMESTER	UNITS
ARCH 505aL	Graduate Architecture	
	Design	6
ARCH 532	Elements of the Urban	
	Landscape	2
ARCH 561	Architecture in the Urb	an
	Landscape: Projects and	1
	Places	2
Basic Studies or	Electives	6
		16
FIRST YEAR, SECON	D SEMESTER	UNITS
ARCH 505bL	Graduate Architecture	
	Design	6

ARCH 533	Urban Landscape	
	Case Studies	2
ARCH 563	Architecture in the Urb	an
	Landscape: Comparativ	re
	Theories	2
Basic Studies or l	Electives	6
		16
SECOND YEAR, FIRS	T SEMESTER	UNITS
ARCH 605aL	Graduate Architecture	
	Design	6
Basic Studies or Electives		10
		16
		10
SECOND YEAR, SECO	OND SEMESTER	UNITS
ARCH 605bL	Graduate Architecture	
	Design	6
D ' C 1' 1		
Basic Studies or l	Electives*	10

16

OPTIONAL THIRD YE	AR, FIRST SEMESTER	UNITS
ARCH 693bL**	M.Arch. Thesis, Opt	ion I, or
ARCH 695bL**	M.Arch Thesis, Option	on II 8

- *Students electing the independent thesis/DDR option should take ARCH 693a or ARCH 695a at this time.
- **For students who have elected the independent study option.

Master of Architecture: Post-Professional

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

The required courses are 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 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.

48-Unit Sample Curriculum

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

FIRST YEAR, SECON	D SEIVIESTER	UNITS
ARCH 533	Urban Landscape	
	Case Studies	2
ARCH 563	Architecture in the Urban	n
	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

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	
ARCH 695aL	M.Arch. Thesis,	
	Option II	4
Elective	-	2
		16

FIRST YEAR, SECOND SEMESTER UN		UNITS
ARCH 561	Architecture in the Urban	n
	Landscape: Projects and	
	Places	2
ARCH 563	Architecture in the Urban	n
	Landscape: Comparative	
	Theories	2
ARCH 693bL	M.Arch. Thesis,	
	Option I, or	
ARCH 695bL	M.Arch. Thesis,	
	Option II	8
Elective		4
	-	
		16

Master of Landscape Architecture

USC offers an international laboratory for the study of place in an extraordinary natural landscape, at the center of an unparalleled multicultural region, within the context of a great urban university. Thus, the study of landscape architecture at USC has a particular focus on urban place-making in relation to three principles.

First, the programs are intended for students who already have earned a first degree or the equivalent in landscape architecture or architecture, as well as students entering design studies after obtaining a degree in another field. The emphasis is on truly advanced study based on the knowledge and skills to engage complex issues and to undertake ambitious explorations. Graduates are prepared for leadership opportunities in professional practice as well as in higher education.

A second emphasis is on urban landscapes, and on the responsibility of design professions to create the qualities and meanings of our urban futures and to make critical contributions to the reclamation of degraded natural systems and places.

Third, place-making is a collaborative responsibility that requires leadership from professionals across the entire domain of planning and design. This requires seamless relationships between programs, students and faculty engaged in architecture, landscape architecture, preservation, building science and planning studies.

Admission with No Previous Professional Education (+3)

Individuals who have completed a fouryear Bachelor of Arts or Bachelor of Science degree, or its equivalent, with no prior degree in landscape architecture, architecture or environmental design, are eligible for admission to the program. Preference for admission is given to those who have completed a balanced undergraduate education that includes study in the arts, sciences and humanities. Applicants must document successful completion of a college-level course in the natural sciences. Preparation in the visual arts is strongly encouraged. A minimum of a onesemester, college-level course in the visual arts, such as drawing, sculpture, graphics and/ or basic design, is required before beginning the first semester of study. Courses in the humanities, ecology, history of art, landscape architecture and architecture are strongly encouraged, although not required.

96-Unit Curriculum +3

Students admitted with no previous professional education must complete 96 units, including 62 units of specified courses, 24 units of electives of which a minimum of 16 must be from the School of Architecture, and 10 units of Thesis Option I or II. Electives must be part of a curricular plan approved by the program director.

Sample Curriculum +3 (for students with no previous professional education)

YEAR ONE, SEMESTER ONE		UNITS
ARCH 534	Landscape Intervention	:
	Construction Methods	3
ARCH 537	Urban Plan Ecology	3
ARCH 539L	Media for Landscape	
	Architecture	2
ARCH 541aL	Landscape Architecture	
	Design	6
ARCH 565	Global History of	
	Landscape Architecture	3
		17

YEAR ONE, SEMESTER TWO		UNITS
ARCH 535	Landscape Reclamation	:
	Construction Materials	3
ARCH 538	Urban Plant Ecology:	
	California Plant	
	Communities	3
ARCH 541bL	Landscape Architecture	
	Design	6
Electives		3
		15

YEAR TWO, SEMESTER ONE		UNITS
ARCH 531	The Natural Landscape	3
ARCH 532	Elements of the Urban	
	Landscape	2
ARCH 542aL	Landscape Architecture	
	Design	6
ARCH 543	Research Methods	1
ARCH 561	Architecture in the	
	Urban Landscape:	
	Projects and Places	2
Electives	·	2
		16

YEAR TWO, SEMEST	YEAR TWO, SEMESTER TWO U	
ARCH 533	Urban Landscape Case	
	Studies	2
ARCH 542bL	Landscape Architecture	
	Design	6
ARCH 563	Architecture in the Urban	
	Landscape: Comparative	
	Theories	2
Electives		6
	_	
		16

YEAR THREE, SEMESTER ONE		UNITS	
ARCH 530	Landscape Architecture		
	Practice	3	
ARCH 642L	Landscape Architecture		
	Design	6	
ARCH 697aL	M.L.Arch Thesis		
	Option II, or		
ARCH 698aL	M.L.Arch Thesis		
	Option I	2	
Electives	_	5	
		16	

YEAR THREE, SEMESTER TWO		UNITS
ARCH 697bL	M.L.Arch Thesis	
	Option II, or	
ARCH 698bL	M.L.Arch Thesis	
	Option I	8
Electives		8
		16

Admission with Advanced Placement (+2)

Applicants who have completed a nonaccredited, pre-professional undergraduate degree in architecture, landscape architecture or environmental design may be granted advanced placement of one or two semesters, subject to the review of the admission committee. Applicants granted advanced placement may be able to waive certain course requirements for the M.L.A. program by demonstrating equivalencies in any of the required courses. The program director and faculty in charge of the specific curriculum areas will determine the studio and professional course requirements for each M.L.A. student admitted with advanced placement. The following courses are prerequisites to be completed prior to matriculation or, on specific notice, in the first year of the program: history of landscape architecture (ARCH 565 or equivalent), landscape architecture construction (ARCH 534, ARCH 535 or equivalent), plant materials (ARCH 537, ARCH 538 or equivalent).

64-Unit Curriculum +2

Advanced placement students must complete 64 units, including 36 units of specified courses, 18 units of electives of which a minimum of 12 must be from the School of Architecture, and 10 units of Thesis Option I or II. Electives must be part of a curricular plan approved by the program director.

Sample Curriculum +2 (for advanced placement students admitted with pre-professional design degrees)

YEAR ONE, SEMESTER ONE		UNITS
ARCH 532	Elements of the	
	Urban Landscape	2
ARCH 542aL	Landscape Architecture	
	Design	6
ARCH 543	Research Methods	1
ARCH 561	Architecture in the	
	Urban Landscape:	
	Projects and	
	Places	2
ARCH 565	Global History of	
	Landscape Architecture	3
Electives		2
		16

YEAR ONE, SEMESTER TWO		UNITS
ARCH 533	Urban Landscape	
	Case Studies	2
ARCH 542bL	Landscape Architecture	
	Design	6
ARCH 563	Architecture in the Urba	ın
	Landscape: Comparative	2
	Theories	2
Electives		6
		16

YEAR TWO, SEMESTER ONE		UNITS
ARCH 530	Landscape Architecture	
	Practice	3
ARCH 531	The Natural Landscape	3
ARCH 642L	Landscape Architecture	
	Design	6
ARCH 697aL	M.L.Arch Thesis	
	Option II, or	
ARCH 698aL	M.L.Arch Thesis	
	Option I	2
Electives		2
		16
YEAR TWO, SEMESTE	ER TWO	UNITS
ARCH 697bL	M.L.Arch Thesis	
	Option II, or	
ARCH 698bL	M.L.Arch Thesis	

Option I

Electives

8

8 16

Admission with a First Professional Degree in Landscape Architecture: Advanced Standing (+1.5)

Students who hold an accredited Bachelor of Landscape Architecture degree or the equivalent may be granted advanced standing in a post-professional 48-unit, three-semester sequence of studies.

48-Unit Curriculum +1.5

Advanced standing students must complete 48 units, including 21 units of specified courses, 17 units of electives of which a minimum of 10 must be from the School of Architecture, and 10 units of Thesis Option I or II. Electives must be part of a curricular plan approved by the program director.

Sample Curriculum +1.5 (for advanced standing students admitted with a first professional degree in landscape architecture)

ın ıanascape arcı	ntecture)	
YEAR ONE, SEMEST	ER ONE	UNITS
ARCH 532	Elements of the Urban	
	Landscape	2
ARCH 542aL	Landscape Architecture	
	Design	6
ARCH 543	Research Methods	1
ARCH 561	Architecture in the	
	Urban Landscape:	
	Projects and Places	2
Electives		5
		16
YEAR ONE, SEMEST	ER TWO	UNITS
ARCH 533	Urban Landscape	
	Case Studies	2
ARCH 542bL	Landscape Architecture	
	Design	6
ARCH 563	Architecture in the	

ARCH 533	Urban Landscape	
	Case Studies	2
ARCH 542bL	Landscape Architecture	;
	Design	6
ARCH 563	Architecture in the	
	Urban Landscape:	
	Comparative Theories	2
ARCH 697aL	M.L.Arch Thesis	
	Option II, or	
ARCH 698aL	M.L.Arch Thesis	
	Option I	2
Electives		4
		16
YEAR TWO, SEMEST	ER ONE	UNITS

ARCH 697bL	M.L.Arch Thesis	
	Option II, or	
ARCH 698bL	M.L.Arch Thesis	
	Option I	8
Electives	•	8
		16

Sample Elective Courses

ELECTIVES

ELECTIVES	ON	113
ARCH 404	Topics in Modern	_
	Architecture in	
	Southern California	3
ARCH 407	Advanced Computer	
	Applications	4
ARCH 440	Literature and the	
	Urban Experience	4
ARCH 507	Theories of Computer	
	Technology	3
ARCH 524	Professional	
	Practicum 1, max	x 2
ARCH 540L	Topics in Media	
	for Landscape	
	Architecture 2, max	x 4
ARCH 549	Fundamentals of	
	Historic Preservation	4
ARCH 550	Historic Preservation	
	Management: Planning	
	and Development	4
ARCH 552	Introduction to Historic	
	Site Documentation	2
ARCH 553	History of American	
	Architecture and Urbanism	4
ARCH 566	Cross-Cultural Topics	
	in Landscape	
	Architecture History 3, max	x 6
ENST 501	Environmental Science I	2
ENST 503	Environmental Science II	2
GEOG 410	Urban Geography	4
GEOG 477	Water Resources	4
GEOG 601	Sustainable Cities	4
GEOG 615	Natural Spaces in Urban	
	Places	4

UNITS

Thesis or Directed Research Option

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

HIMITC

12

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 549	Fundamentals of Histori	c
	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	
		2-6-0

48-Unit Sample Curriculum

FIRST YEAR, FIRST SEMESTER UN		UNITS
ARCH 549	Fundamentals of His	toric
	Preservation	4
ARCH 553	History of American	
	Architecture and Urb	anism 4
Electives		4
		12

FIRST YEAR, SECO	IND SEMIESTER	UNITS
ARCH 404	Topics in Modern	
	Architecture in Southern	ı
	California	3
ARCH 551	Conservation Methods	
	and Materials	4
ARCH 691a	Historic Preservation	
	Thesis Preparation and	
	Thesis	2
Electives		3
		12

SECOND YEAR, FIRST	SEMESTER	UNITS
ARCH 550	Historic Preservation Management, Planning	4
A DOLL 550	and Development	4
ARCH 552	Introduction to Historic	
	Site Documentation	2
Electives		6
		12
SECOND YEAR, SECO	ND SEMESTER	UNITS
ARCH 691b	Historic Preservation	
	Thesis Preparation and	
	Thesis	6
Basic studies or electives		6

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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.

ES UI	NITS
Topics in Modern	
Architecture in Southern	
California	3
Fundamentals of Historic	
Preservation	4
Historic Preservation	
Management, Planning	
and Development	4
Conservation Methods	
and Materials	4
	Topics in Modern Architecture in Southern California Fundamentals of Historic Preservation Historic Preservation Management, Planning and Development Conservation Methods

ARCH 552	Introduction to Historic	
	Site Documentation	2
ARCH 553	History of American	
	Architecture and Urbanism	1 4
ARCH 691abz	Historic Preservation	
	Thesis Preparation and	
	Thesis 2-	6-0

36-Unit Sample Curriculum

FIRST YEAR, FIRST SEMESTER		IITS
ARCH 549	Fundamentals of Historic	
	Preservation	4
ARCH 553	History of American	
	Architecture and Urbanism	4
Electives		4
	_	

FIRST YEAR, SECOND SEMESTER		UNITS
ARCH 404	Topics in Modern	
	Architecture in Souther	n
	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
		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
		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	Building Systems, or	
ARCH 611	Advanced Building	
	Systems Integration	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

FIRST YEAR, FIRST S	SEMESTER	UNITS
Core seminar(s)	and/or research seminar(s)	12
		12
FIRST YEAR, SECON	D SEMESTER	UNITS
ARCH 596	Building Science	
	Thesis Preparation	1
Core seminar an	d/or research seminar	4
Electives	Electives	
		12
SECOND YEAR, FIRS	ST SEMESTER	UNITS
ARCH 692aL	Building Science	
	Thesis	6
Electives		-
Electives		6
Electives		
SECOND YEAR, SEC	OND SEMESTER	12
	OND SEMESTER Building Science	12
SECOND YEAR, SEC		12 UNITS
SECOND YEAR, SEC	Building Science	12 UNITS 8 4

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	Building Systems, or	
ARCH 611	Advanced Building	
	Systems Integration	4
ARCH 513L	Seminar: Advanced	
	Structures	4

ARCH 515L	Seminar: Advanced	
	Environmental	
	Systems	4
ARCH 596	Building Science	
	Thesis Preparation	1
		13
FIRST YEAR, SECON	ID SEMESTER	UNITS
ARCH 613L	Seminar: Structures	
	Research, or	
ARCH 615L	Seminar: Environmenta	ıl
	Systems Research	4
ARCH 692aL	Building Science	
	Thesis	6
Electives		2
		12
SECOND YEAR, FIR	ST SEMESTER	UNITS
ARCH 692bL	Building Science	
	Thesis	8
Electives		3

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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 fivesemester program. Such students must already possess a five-year professional 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, PLANNIN	IG, AND DEVELOPMENT UN	TS
PPD 500	Intersectoral Leadership	2
PPD 501a	Economics for Policy,	
	Planning and Development	2
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 529	Legal Environment	
	of Planning	2
PPD 533	Planning History and	
	Urban Form	2

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

Concentration Methodology: A 4-unit course selected from the concentration list shown in the Master of Planning program.

Planning Studios: PPD 531L (4, 4) to total 8 units.

Electives: 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 with a professional degree in landscape architecture who are admitted to the graduate program in the School of Architecture with advanced standing and in 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 32 units of courses in landscape architecture, 24 units of courses in urban planning and 10 units of thesis option I or II.

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

LANDSCAPE 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 697abzL	M.L.Arch. Thesis,	
	Option II, or	
ARCH 698abzL	M.L.Arch. Thesis,	
	Option I	2-8-0
Electives		12
STUDIOS		UNITS
STUDIOS ARCH 542abL	Landscape	UNITS
	Landscape Architecture Design	<u>UNITS</u> 6-6
ARCH 542abL	Architecture Design	6-6
	Architecture Design	
ARCH 542abL	Architecture Design	6-6
ARCH 542abL	Architecture Design	6-6
POLICY, PLANNING, APPD 500	Architecture Design AND DEVELOPMENT Intersectoral Leadership	6-6
POLICY, PLANNING, APPD 500	Architecture Design AND DEVELOPMENT Intersectoral Leadership Economics for Policy,	6-6
POLICY, PLANNING, APPD 500	Architecture Design AND DEVELOPMENT Intersectoral Leadership Economics for Policy, Planning and	6-6 UNITS 2

PPD 525	Statistics and Arguing	
	from Data	2
PPD 526	Comparative International	
	Development	2
PPD 527	The Social Context	
	of Planning	2
PPD 533	Planning History and	
	Urban Form	2
RED 573	Design History and	
	Criticism	2

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

Electives: 8 units of elective courses 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.

Doctor of Philosophy in Architecture

The School of Architecture offers the Ph.D. in Architecture, designed to prepare individuals for university level teaching and professional research and for leadership positions in industry and professional architectural practice. Doctoral students must consult the Graduate School section, page 93, for regulations and requirements pertaining to its degrees. Students should also consult the Academic Policies section, page 27, for additional information.

Completion of degree requirements is assumed to take a minimum of three years of approved graduate study and research beyond the bachelor's degree in a related field or a bachelor's degree and related practical experience. For the Ph.D. student without Advanced Standing, a minimum of 48 graduate units completed in residence on the University Park campus in Los Angeles is required. Full-time study is represented by enrollment in six units during the semester. Usually, the school and the student's guidance committee insist on a clear and mutually understood commitment of time and energy by the student to ensure significant involvement in the doctoral learning experience.

Application and Admission

Admission to the Ph.D. is granted by the Dean of the School of Architecture. However, only a letter from the Office of Graduate Admission constitutes an official offer of admission; correspondence with department chairs or individual faculty members does not constitute admission.

Priority consideration for Ph.D. student funding will be given to those applicants who submit all application materials by December 1. The university will continue to accept and consider applications submitted after December 1. Those who wish to submit applications after the deadline should check with the School of Architecture. Applications for admission to the Ph.D. program are made once each year for fall semester admission.

The admission decision is made using criteria which include verification that the applicant has a bachelor's degree from an accredited college or university, has maintained a high grade point average in the last 60 units of undergraduate work and has earned a competitive score on the verbal and quantitative portions of the Graduate Record Examinations (GRE). Other elements of the applicant's educational and experiential background are also evaluated, including performance in other advanced degrees.

Each applicant should submit the following: (1) one copy of official transcripts of all previous college and university work (be sure that these official transcripts show an awarded degree where appropriate); (2) one copy of GRE scores; (3) copy of TOEFL scores for international students whose first language is not English; (4) a 1000-word essay discussing the applicant's background; reasons for wanting to pursue a doctoral degree; and identifying his or her personal, educational and professional goals; (5) an up-to-date resume,

including academic and professional accomplishments; (6) five letters of recommendation, two from previous instructors, others from instructors or from professional supervisors or colleagues (the letters should indicate the applicant's academic and professional accomplishments and potential); (7) a completed USC Graduate Admission Application, along with the nonrefundable application fee; and (8) samples of work such as a portfolio, publications, software programs, etc. The program is intended for people with considerable intellectual interests. Additional requirements for international students are listed under Admission of International Students.

Upon admission to the program, each student will be assigned a faculty advisor who will oversee his or her program.

Doctoral Admission with Advanced Standing

Students entering with a Master of Architecture degree or Master of Building Science degree (or their equivalent) from USC or another university may be admitted with Advanced Standing. A minimum of 36 units of course work beyond the first graduate degree, exclusive of 794 Doctoral Dissertation preparation, is required for doctoral degree students with a USC Master of Building Science degree admitted with Advanced Standing. For those students entering with a Master of Architecture degree or Master of Building Science degree (or

their equivalent) from another university and admitted with Advanced Standing, a minimum of 40 units of course work beyond the first graduate degree is required. Additional course work may be required if deemed necessary by the student's faculty. See Doctoral Admission with Advanced Standing in the Graduate School section on page 95.

Transfer Credits

The application of any available transfer credits toward a graduate degree at USC will be determined by the School of Architecture, based on the semester units available for transfer as shown in the Transfer Credit Statement. Work experience in architecture or closely related activities should be of benefit to the students involved, but will not be considered equivalent to academic education. A maximum of 6 units of transfer credit may be applied toward a doctoral degree for those admitted with Advanced Standing. Admission with Advanced Standing is based upon a completed master's degree. The only course work available for transfer credit is course work taken after completion of that degree. No exceptions are allowed.

Students entering the doctoral program with a master's degree or graduate course work in a field other than architecture work may receive up to 12 units of transfer credit toward the Ph.D.

Deferral of Enrollment

Admission to the university is granted for a specified semester, and it is expected that students will begin their programs during that semester. The school will normally allow students to defer their enrollment up to one year from the admission semester. Students who wish to defer enrollment should notify the school in writing no more than 60 days before the beginning of the semester of admission or they may be required to reapply for admission. Please note that more stringent regulations apply to international students. See the Graduate Admission section, page 78, for further information.

Admission to Candidacy

Acceptance to graduate standing does not in itself imply that the student is admitted or will be admitted to candidacy for an advanced degree. Application for admission as a candidate for an advanced degree is a separate and subsequent step. See the Graduate School section, page 93, for further information.

General Requirements for the Ph.D. Degree

Screening Procedures

Ph.D. students are required to pass a screening procedure before the student has taken more than 24 units (including research courses). Passing this procedure is prerequisite to continuation in the doctoral program. This is designed to ensure that only those students who have demonstrated intellectual and scholarly potential continue in the program. Students who fail the screening procedure will be advised that they have not been recommended to continue in the Ph.D. program and that any additional work may not be counted toward the degree.

Prior to screening, each student prepares a resume and a preliminary statement describing the fields of specialization. After passing the written screening examination, the student meets with the committee to discuss the proposal for course work, fields of specialization and research interests. The committee chair serves as the student's principal advisor in preparing for the qualifying examination.

Guidance Committee

Each student selects a guidance committee, which officially oversees the student's academic program through the qualifying examination. The guidance committee should be established at least one semester prior to taking the qualifying examination. This should be accomplished by the beginning of the second year, following successful screening. An appointment of committee form, which can be obtained from the Graduate School Web site (www.usc.edu/schools/GraduateSchool), should be used to establish the guidance committee. Students initiate the paperwork and submit the signed form to the dean's office.

Five committee members are designated to provide guidance in the field developed by the student. A minimum of three members, including at least one tenured member, must be from among the faculty participating in the Ph.D. in Architecture degree program, and at least one member must be from outside the School of Architecture. This committee bears responsibility for recommending the student for admission to candidacy. After approval of the student's program and time schedule, the program is submitted in writing to the doctoral director. Students will formalize their relationship with their committees through the development of a study plan which specifies all courses completed, date of screening decision, the area of concentration, and which courses will be taken and when, in order to prepare for the qualifying examination. This study plan will be signed by the student, the members of the guidance committee and the faculty doctoral director. It will be filed in the doctoral office.

Qualifying Examination

Students must complete at least 24 units of course work in the doctoral program with a GPA of at least 3.0 before attempting the qualifying exam.

The guidance committee prepares a comprehensive written examination covering the field of study. The exact format for the written portion is determined by each committee in advance. Answers to the questions in the written portion are graded by all committee members. Following completion of the written portion, the entire committee conducts an oral examination of the student, focusing on material both complementary and supplementary to the written examination but relevant to the field and overall program selected by the student. Upon passing both portions of the qualifying examination, the student becomes a candidate for the Ph.D. degree.

The objective of the qualifying examination is to evaluate the student's knowledge and to serve as an instrument to demonstrate competence in the student's chosen field of concentration in preparation for candidacy. Qualifying examinations are scheduled once each year during August. The oral phase of the examination must be completed within 60 days following the written segment. Both parts of the examination must be passed in order to qualify. Failure on one of the two parts of the examination does not require retaking both parts. Only the part failed must be redone.

The examination will be collaboratively designed by the instructors of the core courses and oriented toward testing students' ability to integrate material from these courses. A portion of this examination will focus on methodological issues. The written portion of the examination will be administered during a full-day session.

The process of grading examinations will be accomplished in two ways. For the written examination, the grading will be done by a committee comprising the core course instructors and the doctoral director. For the oral examination, grading will stay with the guidance committee. Upon passing both the core and oral portions of the examination, the student will be expected to reduce the guidance committee to a dissertation committee. See General Requirements for the Doctor of Philosophy Degree, page 98.

Courses of Instruction 131

REQUIRED COURSES

Dissertation Committee

Once students pass the qualifying examination, the guidance committee recommends the student for candidacy and a dissertation topic is approved, a dissertation committee must be formed as soon as possible. The size may range from three to five members, one member of which must be from outside the school.

Dissertation Proposal

After the successful completion of the qualifying examination, the doctoral student will be required to present a complete research proposal for the dissertation. The proposal will be circulated for review and evaluation by the dissertation committee. This proposal should include the methodology, research design, literature review and instrumentation (if applicable). After this step has been completed, further work leading to the completion of the dissertation is authorized.

Defense of the Dissertation

Oral defense of the dissertation before the dissertation committee is usually made on a preliminary draft. After the dissertation committee has approved the dissertation in substance, the candidate must defend it before the committee and other interested doctoral program faculty and colleagues. Successful completion of the oral defense marks the ultimate step for the candidate within the School of Architecture. The candidate must be certain that the dissertation also meets specific university requirements before acceptance by the Graduate School. See the Graduate School section, page 99, for further information.

All theses and dissertations submitted in fulfillment of requirements for graduate degrees must conform to university regulations with regard to format and method of preparation.

Unit Requirement and Time Limit

The Ph.D. degree in Architecture requires a minimum of 72 units (including a minimum of 4 units of ARCH 794) of graduate level course work, and has a minimum residency requirement of three years. Students must maintain a 3.0 average GPA and complete all required course work within five years. The maximum time for the completion of all requirements for the doctoral degree is eight years.

A leave of absence can be granted upon approval of the guidance or dissertation committees. There is no automatic readmission if the student fails to maintain continuous registration or fails to meet academic standards.

Core Curriculum

Year 1: Basic and professional studies Acquire at a minimum the knowledge that is characteristic of the master's degree students or equivalent and define the research program.

Year 2: Advanced studies

Year 3: Research and dissertation

While a Master of Architecture or related degree is not a prerequisite for admission, those students entering the doctoral program without a master's degree in architecture or related field will be required to complete a core curriculum.

UNITS

REQUIRED COURSES	UNI	15
ARCH 419	Architectural Sustainability	
	Tools and Methods	3
ARCH 513L	Seminar: Advanced	
	Structures	4
ARCH 515L	Seminar: Advanced	
	Environmental Systems	4
ARCH 519	Sustainability in the	
	Environment: Infra-	
	structures, Urban	
	Landscapes and Buildings	3
ARCH 611	Advanced Building	
	Systems Integration	4
ARCH 613L	Seminar: Structures	
	Research	4
ARCH 615L	Seminar: Environmental	
	Systems Research	4
ARCH 790	Doctoral Research	20
ARCH 791	Proposal for Doctoral	
	Dissertation	1
A minimum of 4 u	inits of:	
ARCH 794abz	Doctoral Dissertation 2-2-	-0
GRSC 850ab	The Professoriate:	
	Preparing for the Future 2	-2
Electives		17

Courses of Instruction

ARCHITECTURE (ARCH)

All courses must be taken in *sequential* order, *a* before *b*.

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

ARCH 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.

ARCH 105L Fundamentals of Design Communication (2, FaSp) Visual communication techniques applicable to the design of the built environment; drawing, photography, modeling.

ARCH 106x Workshop in Architecture

(2, FaSp) 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.

ARCH 114 Architecture: Culture and Community (2, FaSp) 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.

ARCH 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 102*bL*.

ARCH 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.

ARCH 207 Computer Applications in Architecture (2, FaSpSm) Introduction for the non-programmer to the uses of the computer in architecture, including the application of existing programs and their implications for design. Overview and use of software types. Lecture and laboratory. (Duplicates credit in former ARCH 207*a*).

ARCH 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.

ARCH 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.

ARCH 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.

ARCH 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.

ARCH 220 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.

ARCH 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 202*a*.

ARCH 270 Introduction to Architectural Studies (2, FaSp) Gateway course requirement for the B.S. in architectural studies program introduces related fields using mentoring, readings, case studies and field trips.

ARCH 302abL Architectural Design III (6-6, FaSp) Special integrative year including design issues relating to housing. *Prerequisite:* ARCH 202*bL*.

ARCH 304x Intensive Survey: Prehistory to the Present (4, FaSp) 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.

ARCH 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 205*abL*.

ARCH 306 Shelter (4, Sp) Investigation of issues, processes, and roles of individuals, groups and communities in relation to present and future shelter needs and aspirations. (Duplicates credit in former ARCH 206.)

ARCH 307 Digital Tools for Architecture (2, FaSpSm) Main topics include building information modeling, geometric and analytical modeling, among other applications in digital design. Lecture and laboratory. (Duplicates credit in former ARCH 207*b.*) *Recommended preparation:* ARCH 207 or equivalent computer experience.

ARCH 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.

ARCH 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 213*a*.

ARCH 314 History of Architecture: Contemporary Issues (3, FaSm) Examination of the buildings, issues and images, the polemics and personalities that are animating current architectural discourse and practice. *Prerequisite:* ARCH 214*b.*

ARCH 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.

ARCH 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.

ARCH 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.

ARCH 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.

ARCH 360abL Landscape Architecture Design II (6-6, FaSp) 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.

ARCH 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.

ARCH 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.

ARCH 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.

ARCH 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.

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

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

ARCH 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 302*bL*.

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

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

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ARCH 407 Advanced Computer Applications (4, FaSp) 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 207 and ARCH 307, CADD studio or departmental approval.

ARCH 410 Computer Transformations

(2) 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:* ARCH 202b.

ARCH 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.

ARCH 415 Asian Architecture and Urbanism (2, Sp) Overview of Asian architecture emphasizing that the built environment is as diverse as the histories and cultures that make up the region.

ARCH 416 Architecture and Urbanism in France (2, Sp) An understanding of the cities and buildings of France. Case studies as specific places, and historical background for development of personal design theory.

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

ARCH 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.

ARCH 419 Architectural Sustainability Tools and Methods (3, FaSp) Lectures, comparative studies and exercises on international architectural sustainability rating and certification systems.

ARCH 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 302*L*.

ARCH 421 Digital Architectural Photography (2, FaSp) Perceiving and documenting the built environment through the perspective and frame of the digital camera. Mastering the basic principles of the digital image through an understanding of frame, light, exposure, color correction, and printing output.

(2, FaSp) Perceiving and documenting the built environment through the perspective and frame of the camera. Abilities with 35mm

ARCH 422 Architectural Photography

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.

ARCH 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 105*L*.

ARCH 424L Field Studies in Architecture (2, FaSpSm) (Study abroad programs only.) Field studies using direct observation, site recordings/documentation, analysis and evaluation supplemented by discussions and readings in architecture. Department approval. *Recommended preparation:* core curriculum.

ARCH 425L Field Studies in Urbanism (2, FaSpSm) (Study abroad programs only.) Field studies using direct observation, site recordings/documentation, analysis and evaluation supplemented by discussions and readings in urbanism. Departmental approval. *Recommended preparation:* core curriculum.

ARCH 426L Field Studies in Tectonics (2, FaSpSm) (Study abroad programs only.) Field studies using direct observation, site recordings/documentation, analysis and evaluation supplemented by discussions and readings in tectonics. Departmental approval. *Recommended preparation:* core curriculum.

ARCH 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.

ARCH 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. ARCH 434 City Cine: Visuality, Media and Urban Experience (3, Fa) This seminar explores the relationship between urban experience and visual media (from the photographic, to the filmic, to the digital) from circa 1880 to the present.

ARCH 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.

ARCH 441 A History of Architectural Theory: 1400-1914 (2, FaSp) A seminar on architectural theory from Alberti to Scott, reviewing primary texts and subsequent criticisms.

ARCH 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.

ARCH 444 Great Houses of Los Angeles (4, FaSp) An introduction to the architectural philosophies of seven influential California architects through readings and site visits to significant case studies. (Duplicates credit in former ARCH 322.)

ARCH 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.

ARCH 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 360*b.*

ARCH 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.

ARCH 463 Plant Material Identification:
California Plant Communities (4, FaSp)
Expand plant material vocabulary to include

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

ARCH 465 History of Landscape Architecture (4, FaSp) Provides understanding of design of landscape in the Western world. Includes case studies on general and specific projects. Students develop personal theory of landscape design. (Duplicates credit in former ARCH 365.)

ARCH 466 Nature, Landscape and Gardens in Non-Western Cultures (4, Sp) Critical analysis and appreciation of landscape as cultural interpretation of nature and the representation of landscape as garden and public space in Asian, Islamic, and Pre-Columbian American civilizations. (Duplicates credit in former ARCH 366.)

ARCH 470 Concentration Capstone Seminar (4, FaSp) Collaborative research project and research paper in an area of concentration. Senior standing.

ARCH 475 Urban Practicum (4, Sp) Enroll in URBN 475.

ARCH 481 Furniture Design (2, FaSp) An investigation into 20th century furniture design and its relationships to architecture, art and design.

ARCH 490x Directed Research (2-8, max 8, FaSpSm) Individual research and readings. Not available for graduate credit.

ARCH 499 Special Topics (2-4, max 8, FaSpSm) Selected topics in various specialty areas of architecture.

ARCH 501 Comprehensive Studio Support and Enrichment (2, SpSm) Addresses curricular elements of the Comprehensive Studio concurrent with academic research, documentation and production of a written and illustrated paper on an architectural subject. *Prerequisite:* ARCH 402*cL; concurrent enrollment:* ARCH 502*aL.*

ARCH 502azL Architectural Design V (6-0, FaSpSm) 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; z: Prerequisite: ARCH 502a.

ARCH 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.

ARCH 507 Theories of Computer Technology (3, FaSp) Fundamental theories and meanings of computation as a technique in architectural design. Lecture/discussion.

ARCH 510 Research and Documentation Techniques for Architects (2, Fa) Assistance for fifth year architecture students in preparing for their final academic requirements in ARCH 501/502abL and covers pre-design, research topics and writing skills. Graded CR/NC. *Corequisite:* ARCH 402cL.

ARCH 511L Building Systems (4, Fa) Studies of construction system development within the architectural design context; processes and issues of selection, evaluation, optimization, integration, design control, and innovation.

ARCH 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.

ARCH 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).

ARCH 517 Current Topics in Building Science (1, max 6, Fa) Critical studies in building science ranging from sustainability, lighting, acoustics, materials and methods, structures, energy issues, digital media, and fabrication. Students focus on minimum of two topics.

ARCH 519 Sustainability in the Environment: Infrastructures, Urban Landscapes, and Buildings (3, FaSp) Methodologies and exercises on contextual design and environmentally sound technologies (EST's) applications for the sustainability of urban infrastructures, operative landscapes, and building integration in the urban system.

ARCH 524 Professional Practicum (1, max 2, FaSpSm) 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*.

ARCH 525 Professional Practice: Pre-Design, Project and Office Administration (3, Fa)

Design methodology, typology programming, site analysis, budget formulation and pro-forma procedures. Office management, emphasizing professional service and professional ethics as well as project management focusing on the architect's responsibilities during construction. (Duplicates credit in former ARCH 520 and ARCH 522.) *Prerequisite:* ARCH 302*bL*.

ARCH 526 Professional Practice: Legal and Economic Context, Project Documentation (3, Sp) The laws and regulations that affect the practice of architecture and building economics and the development of comprehensive project documentation, detailing, specifications, drawing formats and organizations. (Duplicates credit in former ARCH 521 and ARCH 523.) *Prerequisite:* ARCH 302*bL*.

ARCH 527 Case Studies: The Development of Urban Housing (2, FaSp) An exploration of the various elements and stages of the housing development process. *Recommended preparation:* a preliminary understanding of real estate or housing.

ARCH 528 Urban Housing: Types and Typologies (2, Fa) Applications and precedents for the architect interested in designing multifamily housing. Review of the sources of modern housing types, the impact of building codes and technology on the form and construction of housing, and study of housing densities; comparative analysis of multifamily residential patterns. Major emphasis on critical knowledge of historic housing typologies as they are applied to site conditions and groupings, building form, section, organization, and the design of individual dwellings. *Recommended preparation:* two years of undergraduate architectural studies.

ARCH 529 Urban Housing: Programs, Precedents, and Recent Case Studies (2, Fa)

Historical overview of the major domestic and international housing developments and innovations since the early 20th century. Case study format examining a wide range of issues that determine the form of urban housing in various cultures. Major emphasis on the detail analysis of social, technical, and design factors affecting recent housing developments. *Recommended preparation:* two years of undergraduate architectural studies.

ARCH 530 Landscape Architecture Practice (3, FaSp) Introduction to the principles and ethics, scope and activities, and types of organization for landscape architecture practice. (Duplicates credit in former ARCH 630.)

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

ARCH 532 Elements of the Urban Landscape (2, Fa) 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.

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

ARCH 534 Landscape Intervention: Construction Methods (3, Fa) Preparing the site: soils, grading, drainage, irrigation, surface; building the place: materials, utilities, plants, and processes of construction. (Duplicates credit in former ARCH 535*a*.)

ARCH 535 Landscape Reclamation: Construction Materials (3, Sp) Assessing existing conditions and site repair imperatives; opportunities for reestablishment of natural system continuities; alternative techniques for soil remediation, regrading, and stabilization; selection of materials and methods of construction for site development. (Duplicates credit in former ARCH 535*b*.)

ARCH 536 The Landscape Planning Process (3, FaSp) Methods of assessing urban places regarding natural, social, cultural and political factors; identification of landscape architecture planning and project implementation issues and strategies.

ARCH 537 Urban Plant Ecology (3, Fa)

Aesthetic and ecological concepts for urban planting design: introduction to plant species and communities including nomenclature, visual characteristics, cultural considerations, and design case studies with visits to existing sites.

ARCH 538 Urban Plant Ecology: California Plant Communities (3, Sp) Emphasizes plant material vocabulary regarding native plants of Southern California in relation to ecological conditions of urban settings. (Duplicates credit in ARCH 463.)

ARCH 539L Media for Landscape Architecture (2, Fa) Development of methods and skills for the study of landscape architecture design and for project presentation, including natural resource and urban mapping.

ARCH 540L Topics in Media for Landscape Architecture (2, max 4, FaSp) Exploration of emerging techniques for landscape architecture study, presentation and documentation; topics vary from year to year; may be repeated for credit when subject matter is different.

ARCH 541abL Landscape Architecture
Design (6-6, FaSp) a: Projects on urban sites with emphasis on cultural and ecological purpose and on urban place and form; use of traditional and digital media. b: Projects in urban settings with emphasis on landscape continuities as well as development of integrative schematic proposals and detailed open space design.

ARCH 542abL Landscape Architecture Design (6-6, FaSp) *a:* Project strategies for urban infrastructure repair and intervention, phasing, and design of initial catalytic projects. *Prerequisite:* ARCH 541*bL. b:* Projects for the public realm with emphasis on urbanity and connectivity, place and meaning.

ARCH 543 Research Methods (1, Fa) Introduction to methods of inquiry and documentation including critical review of published materials, techniques for systematic observation, generating findings from comparative studies of relevant precedents and problems, and legible presentation of outcomes.

ARCH 549 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. (Duplicates credit in former ARCH 450.)

ARCH 550 Historic Preservation Management, Planning and Development (4, FaSp)

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. *Recommended preparation:* ARCH 549.

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

ARCH 552 Introduction to Historic Site Documentation (2, Sp) 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.

ARCH 553 History of American Architecture and Urbanism (4, Sp) 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.)

ARCH 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 532b.)

ARCH 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*.)

ARCH 565 Global History of Landscape Architecture (3, Fa) Understanding of the global history of landscape design in relation to social, political, religious, environmental and aesthetic principles; current design theory, projects and their historical references are critically reviewed and analyzed. (Duplicates credit in ARCH 465.)

ARCH 566 Cross Cultural Topics in Landscape Architecture History (3, max 6, FaSp) Comparative analysis and appreciation of landscape architecture as a manifestation of nature, society, and design. Topics and world regions vary from year to year; may be repeated for credit when subject matter is different.

ARCH 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.

ARCH 596 Building Science Thesis Preparation (1, Sp) 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. Graded CR/NC.

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

ARCH 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.

ARCH 611 Advanced Building Systems Integration (4, Fa) Design criteria development, material and construction process methods, occupancy based load profiles, performance/material life-cycle-mandates, durability for advanced building systems including integrity in sustainable urban systems.

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

ARCH 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.

ARCH 642L Landscape Architecture Design (6, Fa) Fully integrated landscape place design; reclamation sites at significant urban or natural locations. *Prerequisite:*ARCH 542*abL.*

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

ARCH 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 549, ARCH 553.

ARCH 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.

ARCH 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.

ARCH 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.

ARCH 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.

ARCH 697abzL M.L.Arch. Thesis, Option II (2-8-0, FaSpSm) Field studies and thesis for the M.L.Arch. degree. Credit on completion of thesis. Graded IP/CR/NC.

ARCH 698abzl M.L.Arch. Thesis, Option I (2-8-0, FaSpSm) Directed research option for the M.L.Arch. degree. Credit on acceptance of research project. Graded IP/CR/NC.

ARCH 790 Doctoral Research (1-12, FaSp) Research leading to the doctorate. Maximum units which may be applied to the degree to be determined by the School of Architecture.

ARCH 791 Proposal for Doctoral Dissertation (1, Fa) Credit on acceptance of dissertation proposal. Graded CR/NC.

Graded CR/NC.

ARCH 794abcdz Doctoral Dissertation (2-2-2-0, FaSpSm) Credit on acceptance of dissertation. Graded CR/NC.