



COLLEGE OF ENVIRONMENTAL



DESIGN

COLLEGE OF ENVIRONMENTAL DESIGN

Linda Sanders, Dean
Noel Vernon, Associate Dean

The College of Environmental Design (ENV) offers accredited professional degree programs at the graduate and undergraduate level in Architecture, Landscape Architecture, and Urban and Regional Planning. The Art Department offers an accredited bachelor of arts degree, with options in Fine Arts, Graphic Design, and Art History. The curricula of the College of Environmental Design are centered within the departments but share a common commitment to discover workable solutions to complex environmental and cultural concerns.

As professional disciplines, the departments share a commitment to the development of skills for a professional career. These skills are enriched by the support courses taken within the College and the University. The faculty is comprised of professionals involved in research, practice and instruction.

Incoming ENV students are required to have access to a computer selected by the College of Environmental Design. Such access may be accomplished by purchase, rental, or other alternatives agreed upon by the College and the student. The College will work closely and confidentially with students requiring aid to assure computer access to all ENV students. No students will be denied entry to ENV based upon inability to purchase or rent a computer. The College also will work with students already owning suitably powerful computers using other platforms.

INSTITUTE FOR ENVIRONMENTAL DESIGN

Jeffrey K. Olson, M.L.A., Director

The purpose of the Institute for Environmental Design is to encourage and support research and creative activity by the Environmental Design faculty for the purposes of professional growth and development, improving teaching quality, outreach to the community, and advancing disciplinary and professional fields of knowledge and endeavor. The Institute is also concerned with identifying and resolving environmental design issues of importance to society and the design and planning professions. To that end, researchers, scholars and creative practitioners are active in the fields of architecture, behavior and design, community development, computers, energy, housing, international development, landscape design, preservation, professional practice, resource management/conservation, transportation, urban design, and urban and regional planning. Additional interdisciplinary research is carried out in cooperation with the University's Center for Regenerative Studies.

The Institute sponsors individual and collaborative faculty research and creative activities, including grants for travel to conferences and seed grants. In addition, the Institute supports faculty activity that involves, or promises to involve, Environmental Design students or to clearly benefit students through teaching. The Institute provides space and other resources for faculty research activities and supports faculty in every stage of the professional development process.

For further information, contact the director, Professor Jeffrey K. Olson (909) 869-2685, E-mail: <jkolson@csupomona.edu>

INSTITUTE FOR INTERNATIONAL STUDIES

Brooks Cavin, III, Director

The Institute exists within the College to develop, coordinate and promote international academic programs and activities. This includes assisting with visiting students and scholars on campus and monitoring

Cal Poly Pomona programs run overseas for the four disciplines of the College. The College encourages students to participate in the CSU International programs in Italy, Denmark and Canada, as well as in the College-sponsored programs in Greece, France, Germany, Japan, Mexico, and other Latin American countries. An average of 60-80 students participate each year in the various programs. Under existing agreements, an increasing number of foreign students study each year at the College.

Further information is available from the director, Professor Brooks Cavin, III, Building 7, Room 103D, (909) 869-2693, FAX (909) 869-4516, E-Mail: <bcavin@csupomona.edu>

OCCUR/CAL POLY POMONA

(Outreach Community Center for Urban Research)
217 South Lemon Street, Ontario, CA
Norberto F. Nardi, Director, Professor of Architecture

In the world of design, OCCUR provides a unique oasis for work on real urban projects in an off-campus, interdisciplinary facility located in the heart of downtown Ontario. Studios, classroom space and an outdoor courtyard workshop area are adjacent to the OCCUR offices, reminiscent of the successful atelier teaching methods of the past. Regular academic design courses for all ENV departments, as well as special courses, meet at the facility in single or multi-discipline units to work on projects tailored to specific urban issues or relating to a project for a community or organization. A report is published at the end of the course.

The resources of the College of Environmental Design, as well as the expertise available from the entire University, benefit OCCUR's approach to projects, one that earned the Center the 1995 Academic Award from the American Planning Association, California Chapter. Research focuses on education through academic coursework and on community outreach through involvement in local projects, special educational workshops and seminars.

OCCUR's mission is to perform a variety of research services for community-oriented programs within the Cal Poly Pomona region which are intended to improve the quality of the physical environment and the lives of local residents, as well as to expand the educational experience of Cal Poly Pomona students and faculty. For further information, contact OCCUR at (909) 984-1858 or FAX (909) 984-4809.

RICHARD AND DION NEUTRA VDL RESEARCH HOUSE

Kevin O'Brien, Resident Director

The initials VDL stand for Cornelius H. van de Leeuw, Dutch industrialist and friend of Richard Neutra who offered aid and entrusted the young Neutra to build Research House I.

The Neutra Research House (VDL I) on Silverlake Boulevard in Los Angeles was designed and built in 1932. The present home has been completely reconstructed upon the original foundations after an electrical fire destroyed much of it in 1963, utilizing similar room sizes and configuration. Under the direction of Richard Neutra's son, Dion, significant changes were executed in floor plans and appearance, as well as detailing and fenestration, particularly in the entry and on the east facade. The 1938 Garden House (off the south patio) suffered very little damage in the fire, and it was here that Dion and his family lived during the reconstruction, allowing him the opportunity to supervise the work closely. VDL II, as the re-built house was then referred to, served as Mr. and Mrs. Richard Neutra's residence and the base for the Neutra Institute. In 1979, Mrs. Neutra and California State Polytechnic University, Pomona came to an agreement whereby the Richard and Dion Neutra Research House would become a University facility. In 1999, the house was designated a "World Monument 2000" by the World

Monument Watch Society. The structure is one of the youngest buildings to ever receive this designation. Through the generosity of Mrs. Neutra and the entire Neutra family, the University has gained an architectural work of great significance and an invaluable instructional aid.

ENV LIBRARY

Wendy L. Carr, Librarian

The ENV Library houses a variety of materials designed to support the college curriculum. These include books, periodicals, technical reports, product information, samples, organizational newsletters, CDs and on-line access to a variety of informational service groups. These materials are available to current faculty, students and staff and, on a limited basis, to off-campus users.

Special Services include:

Faculty Reserves: A service that allows current faculty to place items on limited (hourly) reserve to maximize accessibility by students.

Class Orientation: A brief presentation to students by ENV Library staff on the available services, any particular areas of interest, and the use of reference tools. Depending on the number of students, this presentation may be done either in the classroom or within the ENV Library itself. This service is available by appointment only and requires advance notice.

Computer Search: On-line searches of out-of-state library catalogs are only a few of the services accessible via our student Netscape infostations.

ENV VISUAL RESOURCES LIBRARY

Kathy Morgan, Slide Curator

The ENV Visual Resources Library, located in the Environmental Design building, houses a collection of 35 mm slides, videos, and CD-ROMs which support the curriculum of the various departments within the college. The collection is circulated to current faculty, staff and students.

The Curator provides reference services to users of the collection. Consultation on accessing sources for specific images and WWW searches for images are provided for faculty in support of the curricula.

ENV ARCHIVE

Wendy L. Carr, Archive Coordinator

The Archive is an organized physical accounting of the curriculum and history of the College as well as documentation of the evolution of trends in Southern California Architecture. Projects by students, faculty, and outside professionals in the environmental design disciplines are stored at two on-campus locations. Items include models, books, photographs, plans, papers, computer diskettes, slides, and audio and visual recordings.

The Archive also includes the special collections of Craig Ellwood, Richard Neutra and Raphael Soriano. As an aid to research, some archival materials are available on a limited basis for use by faculty, staff, students and invited scholars, but the majority of the materials in these three special collections are unavailable for use at this time.

Retention of student work: All work of the students of the College of Environmental Design is considered the property of the College and, as such, may be retained to be displayed, archived, or used in promotional materials or for accreditation purposes at the discretion of the faculty, department chair or other designated representative of the College.

For further information, contact the Archive Coordinator at (909) 869-4553, E-mail: <wlcarr@csupomona.edu>

ENV OFFICE OF STUDENT AFFAIRS

Joyce E. Howland, Ph.D., Director

Admissions: Prospective students for all programs in the college may obtain admissions information in this office, as well as in the appropriate departmental offices. Copies of articulation agreements with community colleges also are available.

Registration: Information is provided regarding telephone registration, adding and dropping classes, simultaneous enrollment at other colleges, petitions for undergraduate credit in a graduate course, etc.

Records: Files for students currently enrolled in the undergraduate architecture and landscape architecture programs are maintained in this office. All other active students' files are maintained in the respective department offices. Students may inquire in this office as to whether or not an instructor has submitted a change of grade; however, blank change-of-grade forms are given to faculty only. Incomplete grade contracts are kept on file in this office. Student files may be checked-out by faculty only. Student addresses and telephone numbers are confidential and will be given only to faculty.

Advising: This office assists the student's faculty advisor in providing undergraduate students with academic advice and information regarding University and College policy and procedure. Graduate students should contact the graduate coordinator in their major department for academic advising and graduate program information. Advisement for students who are participating in the Intensive Learning Experience (ILE) Program is coordinated by the Director. All petitions which require the Dean's signature are submitted to the Director for approval after the student has obtained all other signatures required on the form.

For further information, contact Dr. Joyce Howland at (909) 869-2670, E-mail: <jhowland@csupomona.edu>

INTERNSHIPS

Marcy Cordero, ENV Internship Coordinator

ENV students are encouraged to enhance their education with work experience in their chosen profession. Internships augment educational experiences by providing knowledge necessary to evaluate career goals and objectives and by offering opportunities to network within the profession. This office solicits and coordinates internships in Architecture, Art, Landscape Architecture, and Urban and Regional Planning professional firms and agencies to assist students in acquiring quality positions. Architecture students should contact this office for information regarding verification of their required work-experience hours. Through this office, assistance is available to ENV students in developing their resumes.

For further information, contact Marcy Cordero at (909) 869-4504, E-mail: <mcordero@csupomona.edu>

COMPUTER-AIDED INSTRUCTION LABORATORY (CAI LAB)

Paul Tran, Information Technology Consultant

The Computer-Aided Instruction Laboratory, located in the Environmental Design Building, provides a range of work stations for ENV students to explore significant issues in their fields with computers. Classroom computer instruction is supported by the laboratory for a variety of design and planning applications, including Geographic Information Systems, Computer-Aided Design, advanced graphics applications and statistical modeling. Applications research and continuing education for the professional community are also carried out by the laboratory.

Further information is available from the CAI Laboratory Committee Chair, Babette Mayor, (909) 869-3515, E-mail: <brmayor@csupomona.edu>

Departments and Majors

ARCHITECTURE

William M. Adams, Chair
Kip Dickson, Assistant Chair
Bachelor of Architecture
Master of Architecture

ART

Maren H. Henderson, Chair
Bachelor of Arts in Art, with options in Fine Arts, Graphic Design, and Art History
Minor in Art History

LANDSCAPE ARCHITECTURE

Kenneth S. Nakaba, Chair
Bachelor of Science in Landscape Architecture
Master of Landscape Architecture

URBAN AND REGIONAL PLANNING

Richard W. Willson, Chair
Bachelor of Science in Urban and Regional Planning
Master of Urban and Regional Planning

SPECIAL ADMISSIONS CRITERIA FOR ARCHITECTURE

The undergraduate program in architecture is designated as an impacted program (see earlier section of catalog on "Admissions"). In order to alleviate the pressure of impaction and to better evaluate applicants for the programs in question, a special admission policy has been adopted. Candidates interested in applying to Architecture must do so during the month of November to be considered for the following academic year. All candidates must meet regular University admission standards as well as additional standards required by the Department of Architecture. For specific admission information, interested students should contact the College of Environmental Design Office of Student Affairs at (909) 869-2670.

ENVIRONMENTAL DESIGN COURSES

ENV 101/101L Foundations of Design I (2/2)

Studio introducing undergraduate ENV majors to design fundamentals, stressing a basic vocabulary of 2- and 3-D design and design process in an atmosphere of discovery and creativity. Projects will focus on perception, visualization, representation, and expression as well as an introduction to the examination of aesthetic, symbolic, and cultural elements. First studio of a two-studio ENV sequence. 1 two-hour lecture; 2 three-hour laboratories.

ENV 112 Design and the Built Environment (4)

Introduction to the tools, techniques, and processes used by design professionals to create the physical world. Experiences with the built environment provides ways to join abstract ideas with practical and creative solutions for living. 4 lectures/problem-solving.

ENV 115/115A History of Art and Environmental Design (3/1)

An interdisciplinary introduction course integrating the history of architecture, art, landscape architecture, and urban planning. Examples drawn from greater Los Angeles illustrate contemporary applications of historic precedent. Examination of the styles, iconography, meaning and

cultural context of significant and culturally diverse periods and places in world art and design. Emphasis on fundamental knowledge necessary to further study in the environmental design disciplines, as well as visual, analytical, and verbal skills. 3 lectures, team-taught by faculty representing the four disciplines, and 1 activity session per week.

ENV 120/120L Introduction to Computers in Design (1/1)

Interdisciplinary introduction to computers, focusing on thinking skills, creativity, and expression and providing a practical introduction to the use of computers in design. 1 one-hour lecture; 1 two-hour laboratory.

ENV 200 Special Study for Lower Division Students (1-2)

Individual or group investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units with a maximum of 2 units per quarter.

ENV 299/299A/299L Special Topics for Lower Division Students (1-4)

Study of a selected topic, the title to be specified in advance. Instruction is by lecture, laboratory, or a combination. Total credit limited to 8 units, with a maximum of 4 units per quarter. Prerequisite: permission of instructor.

ENV/EDU 340 Classroom City (4)

This course presents City Building Education, a hands-on introduction to design, architecture, and the built environment, and how it relates to classroom content areas.

ENV 350 Diversity in Design Language (4)

Explores relationships of belief systems and mythology to design and the organization of the physical environment. Development of unique design vocabulary responsive to the natural environment. Interdisciplinary student teams create contemporary projects with culturally diverse design language reflecting the changing regional and world population. 4 lectures/problem-solving.

ENV 355 Community Performance and Exhibition Spaces: We Speak for Ourselves (4)

Interdisciplinary seminar course identifying, exploring and analyzing spaces for culturally diverse arts venues in Southern California. Course focuses on the design of these spaces and their role in fostering cultural identity and expression.

ENV 370 California Designs for Living (4)

The creative interaction of peoples of California with their natural and built environments. The response of culturally unique designs for living to universal human needs and processes. The influence of California environments on the world.

ENV 380 Design Studio Research (2-4)

Environment-behavior research coordinated with specific environmental design studio courses. Introduction to, and experience with archival and field research methods, data collection and analysis techniques, interpretation for design problems, and report preparation. Concurrent enrollment in specified environmental design studio required. 2 or 4 lecture discussions.

ENV 400 Special Study for Upper Division Students (1-2)

Individual or group investigation, research, studies, or surveys of selected problems. Problems to be initiated by student with guidance from faculty. Total credit limited to 4 units with a maximum of 2 units per quarter.

ENV 401 Take Part Workshop (2)

Instruction and practice in planning participatory workshops; facilitation of the environmental planning process. Prerequisite: concurrent enrollment in environmental design program.

ENV 402/402L Design Research Communication (2/2)

Introduction to basic techniques in the visual and graphic representation and communication of environment-behavior and social science research. Examination of theory-building/hypothesis-testing, micro and macro-levels of research, quantitative and qualitative methods of inquiry, and appropriate modes of graphic interpretation. Skill development in comprehending and generating research data and graphic and written communication of findings. 2 lectures/problem-solving, 2 three-hour labs. Concurrent enrollment required.

ENV 420 The Designer as Teacher (4)

A course preparing architecture and planning students for communicating issues of design of the built environment to clients, community groups, and students. 4 lecture discussions.

ENV 421 Design Issues in Housing (4)

Current behavioral, social and cultural issues in housing design as they relate to domestic organization, life cycle, class and ethnicity. Considerations of function and meaning in form-making, design adaptations in light of change, and evaluation procedures. 4 lectures/problem-solving.

ENV 422 Designing for Elderly and Disabled (4)

Identifies special needs of elderly and disabled adult populations in relation to the physical care, recreation and public facility environments. Addresses design considerations in the built environment which include: housing, work places, public spaces and recreational areas. 4 lectures/problem-solving.

ENV 423 Design for Children and Accessibility (4)

Examines physical environmental issues as they are related to the growth and developmental stages of children and youth (birth-15). Compares urban, suburban and rural settings for care, recreation, learning and shelter of children and youth. Addresses social, ethnic and cultural issues in the planning and design of spaces for children and youth. 4 lecture discussions.

ENV 424 Institutional Environments (4)

Design research on the history and theory of total institutions including hospitals, hospices, mental institutions, prisons and other totalizing environments such as space stations. Design and programming issues such as safety and security, surveillance, home-like qualities, privacy and community, and relation to exterior spaces. 4 lecture discussions.

ENV 470, 471, 472, 473 Cooperative Education (2-4) (2-4) (2-4) (2-4)

Full-time work experience that applies environmental design principles to practice. Prerequisite: junior standing or approval of cooperative education coordinator. Work assignment must have prior approval. Course may be repeated per student's major department limitations. Prerequisite: Architecture students must have fulfilled the 500 hours additional architecture office experience.

ENV 450 Sustainable Communities (4)

Historical survey and cross-cultural study of sustainable communities in relation to their particular built form. Examination and analysis of these intentional communities as models of traditional, alternative, co-housing and future communities. Exploration of legal and economic organization and holding patterns, housing and community design features, and values inhibiting or facilitating experimentation. 4 lecture discussions.

ENV 489 Community Design and Social Change (4)

Principles and processes integrating spatial and social relations in the organization and expression of community. Cross-cultural examination of change in "design" of communities; implications for quality of life and role of designer. 4 lecture discussions. Prerequisite: upper division standing.

ENV 499/499A/499L Special Topics for Upper Division Students (1-4)

Study of a selected topic, the title to be specified in advance. Instruction is by lecture, laboratory, or a combination of both. Total credit limited to 8 units with a maximum of 4 units per quarter. Prerequisite: permission of instructor.

ARCHITECTURE

William Adams, Chair
Kip Dickson, Assistant Chair

Spyros Amourgis	Gary L. McGavin
Lauren Weiss Bricker	Norberto Nardi
Brooks Cavin, III	George Proctor
Richard J. Chylinski	Judith Sheine
Michael W. Folonis	Dariouche Showghi
Hsin-Ming Fung	Patrick Sullivan
Arthur E. Hacker	Barry L. Wasserman
Paul Helmle	Hofu Wu
Denise Lawrence	Bernard Zimmerman

The degree, Bachelor of Architecture, is offered in a five-year curriculum which focuses on the design laboratory. The studio sequence consists of three segments: A three-year basic core, a four-quarter group of topic studios taken jointly by fourth- and fifth-year students, and a culminating senior project. All work becomes the property of the department with superior work retained for display and archival use.

As a result of state impaction requirements, non-resident and foreign students are **not** eligible to apply to the undergraduate program.

Course work within the Department of Architecture is open only to those students who have been admitted to the Department and are designated Architecture majors.

Prior to graduation, all students are required to fulfill 500 hours of work. A minimum of 250 hours must be with a registered architect and the remaining 250 hours may be with a faculty-approved alternative. This work must be verified by the department coordinator of Professional Practice and Cooperative Education.

The Department of Architecture is a member of the Association of Collegiate Schools of Architecture. Courses are taught by a faculty of professionals engaged in practice, education, and research.

The Bachelor of Architecture as a first professional degree (B.ARC) is accredited by the National Architecture Accrediting Board. 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 US professional degree programs in architecture, recognizes two types of degrees: the Bachelor of Architecture and the Master of Architecture. A Program may be granted a five-year, a three-year or a two-year term of accreditation, depending on 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.

For information regarding the graduate program, refer to the Graduate Studies section of this catalog.

ADMISSION TO THE PROGRAM

Because the program offered by the Department of Architecture is over-subscribed, applications are accepted only in the month of November, prior to admission in the following fall quarter.

All candidates must meet regular University admission standards as well

as additional standards required by the Department of Architecture. For specific admission information, contact the College of Environmental Design Office of Student Affairs at (909) 869-2670.

CORE COURSES FOR MAJOR

Required of all students. A 2.0 cumulative GPA is required in core courses, including option courses for the major, in order to receive a degree in the major.

Design Foundations I	ENV	101/101L	(4)
History of Art and Design I	ENV	115/115A	(4)
Introduction to Computers in Design	ENV	120/120L	(2)
Introduction to Architecture	ARC	103/103L	(4)
Special Topics: Introduction to Architectural Design	ARC	299/299L	(4)
Architectural Design	ARC	201/201L	(6)
Architectural Design	ARC	202/202L	(6)
Architectural Design	ARC	203/203L	(6)
Architectural Design	ARC	301/301L	(6)
Architectural Design	ARC	302/302L	(6)
Architectural Design	ARC	303/303L	(6)
Structures	ARC	321/321A	(4)
Structures	ARC	322/322A	(4)
Structures	ARC	323/323A	(4)
Environmental Controls	ARC	331/331A	(4)
Environmental Controls	ARC	332/332A	(4)
Building Construction	ARC	341	(4)
Building Construction	ARC	342	(4)
Ancient and Medieval Architecture	ARC	361/361A	(4)
Renaissance and Baroque Architecture	ARC	362/362A	(4)
Modern Architecture Since 1750	ARC	363/363A	(4)
Architectural Design	ARC	401/401L	(6)
Architectural Design	ARC	402/402L	(6)
Architectural Design	ARC	403/403L	(6)
Architectural Design	ARC	405/405L	(6)
Architectural Design	ARC	406/406L	(6)
Seismic Design in Architecture	ARC	424/424A	(4)
American Architecture	ARC	464/464A	(4)
Architectural Practice	ARC	471	(4)
Architecture and Computers	ARC	474	(4)
Bachelor's Project Research	ARC	491	(2)
Bachelor's Project Programming	ARC	494	(2)
Bachelor's Degree Project	ARC	495	(8)

Total Core Courses 152

PROFESSIONAL ELECTIVES

Select 16 units from below or from approved supplemental department list:

Energy Conservation	ARC	333	(4)
Solar Applications	ARC	334	(4)
Advanced Structures	ARC	425	(4)
Advanced Structures	ARC	426	(4)
Architecture and Urbanism	ARC	451	(4)
Contemporary Architecture	ARC	465	(4)
Topics in Asian Architecture	ARC	466	(4)
California Architecture	ARC	467	(4)
Latin American Architecture	ARC	468	(4)
The Architect and the Development Process	ARC	473	(4)
Computer-Aided Design in Architecture	ARC	475	(4)
Business Development in Architecture	ARC	476	(4)
Behavioral Factors in Architecture	ARC	481	(4)

Behavioral Factors in Architecture	ARC	482	(4)
Behavioral Factors in Architecture	ARC	483	(4)
Approved Engineering Elective			(4)

Total Professional Electives (16)

GENERAL ELECTIVES

Free Electives (9-10)

INTERDISCIPLINARY GENERAL EDUCATION

The Department of Architecture prefers that students starting in the program as freshmen take the Interdisciplinary General Education (IGE) program coursework to meet their general education degree requirements. Coursework is as follows:

IGE PROGRAM

Consciousness and Community	IGE	120	(4)
Rationalism and Revelation	IGE	121	(4)
Authority and Faith	IGE	122	(4)
Culture and Contact	IGE	220	(4)
Reform and Revolution	IGE	221	(4)
Individualism and Collectivism	IGE	222	(4)
Promise and Crisis	IGE	223	(4)
Connections Seminar	IGE	224	(4)

ADDITIONAL GENERAL EDUCATION REQUIREMENTS

Area 1:

B. Advocacy and Argument	COM	204	(4)
C. Freshman English II	ENG	105	(4)

Area 2:

A. Trigonometry	MAT	106	(4)
B. College Physics	PHY	121	(3)
College Physics Laboratory	PHY	121L	(1)
C. Any listed Life Science course			(4-5)
D. Any listed upper division math or science course			(4)

Area 3:

Any course from list A through G (28)

Area 4:

United States History	HST	202	(4)
Introduction to American Government	PLS	201	(4)

Area 5:

See Advisor for recommended list (8)

Total IGE/GE Courses (72-73)

GENERAL EDUCATION COURSES

Students not enrolling in the Interdisciplinary General Education (IGE) program will meet their general education degree requirements with the following coursework:

Area 1:

A. Freshman English I	ENG	104	(4)
B. Advocacy and Argument	COM	204	(4)
C. Freshman English II	ENG	105	(4)

Area 2:

A. Trigonometry	MAT	106	(4)
B. College Physics	PHY	121	(3)
College Physics Lab	PHY	121L	(1)

C. Any listed Life Science course			(4-5)
D. Any listed upper division math or science course			(4)

Area 3:

A. Any listed Fine and Performing Arts			(4)
B. Any listed Philosophy and History			(4)
C. Any listed Literature and Foreign Language			(4)
D. Principles of Economics	EC	202	(4)
or Principles of Economics	EC	201	(4)
E. Principles of Sociology	SOC	201	(4)
or Introduction to Cultural Anthropology	ANT	102	(4)
or any listed EWS course			
F. Any listed course except	PLS	290	(4)
G. Any listed course			(4)

Area 4:

United States History	HST	202	(4)
Introduction to American Government	PLS	201	(4)

Area 5:

See advisor for recommended list (8)

Total General Education Courses (72-73)

TOTAL UNITS FOR 5-YEAR BACHELOR OF ARCHITECTURE DEGREE 250

COURSE DESCRIPTIONS

Courses open only to declared ARC Majors unless otherwise specified.

ARC 103/103L Introduction to Architectural Design (1/3)

An introduction to the formal and spatial language of architecture explored studio projects informed by the analysis of case studies. 1 lecture, 3 three-hour laboratories. Prerequisites: ENV 101/101L, 102/102L, 115. Concurrent enrollment required.

ARC 200 Special Study for Lower Division Students (1-2)

Individual or group investigation, research, studies or survey of selected problems. Problems to be student-initiated under faculty guidance. Total credit limited to 4 units, with a maximum of 2 units per quarter.

ARC 201/201L Architectural Design (3/3)

Exploration of basic design and architectural elements. Continuing development of the process of architectural design with an emphasis on two and three dimensional communication techniques. Prerequisite: ARC 103. 3 lectures, 3 three-hour laboratories. Concurrent enrollment required.

ARC 202/202L Architectural Design (3/3)

A continuation of basic design exercises focusing on simple buildings and their relationship to the site and to the imperatives of nature. 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 201. Concurrent enrollment required.

ARC 203/203L Architectural Design (3/3)

The design process continued using simple programs and the influence of context. Introduction to environmental and structural constraints. (C grade or better required for advancement to ARC 301.) 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 202. Concurrent enrollment required.

ARC 299/299A/299L Special Topics for Lower Division Students (1-4)

Study of a selected topic, the subject matter and title to be initiated by the faculty in advance. Instruction is by lecture, laboratory, or a combination. Prerequisite: permission of instructor.

ARC 301/301L Architectural Design (3/3)

The design process as it relates to building materials and construction. The interaction of aesthetic, technological, and economic determinants. 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 203 with a C grade or better, ARC 341, ARC 363, MAT 106. Concurrent enrollment required.

ARC 302/302L Architectural Design (3/3)

Interaction of construction technology, human behavior and site development on the design of multiple buildings in specific context. 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 301. Concurrent enrollment required.

ARC 303/303L Architectural Design (3/3)

Integration of construction technology, human behavior and site development on the design of mixed use buildings in specific context. 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 302. Concurrent enrollment required.

ARC 321/321A Structures (3/1)

Theories of structural design and the relationship of structure to form, function, and economics. Analysis of structural systems, including the determination of forces and stresses. 3 one-hour lectures, 1 one-hour discussion. Prerequisite: ARC 203, MAT 106, PHY 121, 121L. Concurrent enrollment required.

ARC 322/322A Structures (3/1)

Theories of structural designs and the relationship of structure to form, function and economics. Analysis of structure systems including the determination of forces, stresses and deflections. The design of wood and steel structures as a medium for introducing basic concepts of building and construction systems and materials. 3 one-hour lectures, 1 one-hour discussion. Prerequisite: ARC 321. Concurrent enrollment required.

ARC 323/323A Structures (3/1)

Theories of structural design and the relationship of structure to form, function, and economics. Analysis of structural systems, including the determination of forces, stresses, and deflections. The design of concrete structures as a medium for introducing basic concepts of building and construction systems and materials. 3 one-hour lectures, 1 one-hour discussion. Prerequisite: ARC 322. Concurrent enrollment required.

ARC 331/331A Environmental Controls (3/1)

Principles, evaluation and control of environmental systems. 3 one-hour lectures, 1 one-hour lecture discussion. Prerequisites: ARC 203, MAT 106. Concurrent enrollment required.

ARC 332/332A Environmental Controls (3/1)

Integration, conservation and control of environmental systems. 3 one-hour lectures, 1 one-hour discussion. Prerequisite: ARC 331. Concurrent enrollment required.

ARC 333 Energy Conservation (4)

Integration and management of environmental systems in design to minimize energy and costs. 2 two-hour lectures. Prerequisite: ARC 332.

ARC 334 Solar Design Applications in Architecture (4)

Advanced study of building with respect to solar design. The study of

passive and active solar design, building orientation, materials and site-planning. A review of historical applications of solar design. The study of solar design as an alternate energy source. 2 two-hour lectures. Prerequisite: ARC 332.

ARC 341 Building Construction (4)

An overview of construction, building components, and systems investigated through case studies. 2 two-hour lectures. Prerequisite: ARC 202.

ARC 342 Building Construction (4)

Techniques of construction, building components, and systems investigated through case studies and taught as an integral part of ARC 301, Architectural Design. Selected building materials will be discussed. 2 two-hour lectures. Prerequisites: ARC 203, 341.

ARC 361/361A Ancient and Medieval Architecture (3/1)

A survey of the architecture of ancient Greece and Rome, of the early Christian and Byzantine eras, and of the Romanesque and Gothic periods in Western Europe. 3 one-hour lectures, 1 one-hour discussion. Prerequisites: ENV 115, ENG 104 or 105 or COM 204. Concurrent enrollment required.

ARC 362/362A Renaissance and Baroque Architecture (3/1)

The theory and design of architecture and city planning from 1400 to 1750 with an emphasis on Italy, France, and England. 3 one-hour lectures, 1 one-hour discussion. Prerequisite: ARC 361. Concurrent enrollment required.

ARC 363/363A Modern Architecture Since 1750 (3/1)

A survey of modern architecture from the late eighteenth century to the mid-twentieth century including stylistic revivals, technological changes, and achievements of major architects. 3 one-hour lectures, 1 one-hour discussion. Prerequisite: ARC 362. Concurrent enrollment required.

ARC 400 Special Study for Upper Division Students (1-2)

Individual or group investigation, research, studies or surveys of selected problems. Problems to be initiated by student with guidance from faculty. Total credit limited to 4 units with a maximum of 2 units per quarter. Prerequisite: ARC 303.

ARC 401/401L Topics in Architectural Design (3/3)

Topics in Advanced Architectural Design. See Department Office for list of topics offered. 3 lectures, 3 three-hour laboratories. Prerequisites: ARC 303, ARC 323, ARC 332, ARC 342. Concurrent enrollment required.

ARC 402/402L Topics in Architectural Design (3/3)

Topics in Advanced Architectural Design. See Department Office for list of topics offered. 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 401. Concurrent enrollment required.

ARC 403/403L Architectural Design (3/3)

An exploration of urban design issues including research and analysis of the topics associated with mixed use projects. 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 402. Concurrent enrollment required.

ARC 405/405L Topics in Architectural Design (3/3)

Topics in Advanced Architectural Design. See Department Office for list of topics offered. 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 403. Concurrent enrollment required.

ARC 406/406L Topics in Architectural Design (3/3)

Topics in Advanced Architectural Design. See Department Office for list of topics offered. 3 lectures, 3 three-hour laboratories. Prerequisite: ARC 405. Concurrent enrollment required.

ARC 424/424A Seismic Design in Architecture (4)

A study of the fundamental characteristics of earthquake design in architecture. A survey of building codes, case studies of building performance in earthquakes and calculations relative to earthquake design. 3 one-hour lectures, 1 one-hour discussion. Prerequisite: ARC 323.

ARC 425 Advanced Structures (4)

Topics of importance conducted in seminar addressing particular issues, such as seismic design, tensile structures and case studies in structural performance. 2 two-hour lectures. Prerequisite: ARC 424.

ARC 426 Advanced Structures (4)

The structural analysis of a building. The calculation of vertical and horizontal loads on a wood frame or steel structure, and the design and selection of the structural elements and connectors. 2 two-hour lectures. Prerequisite: ARC 424.

ARC 451 Architecture and Urbanism (4)

Examination of theories which form the basis for the design of buildings in the modern urban and suburban settings. 2 two-hour lectures. Prerequisites: ARC 363, 464 or permission of instructor.

ARC 464/464A American Architecture (3/1)

English, Spanish, and French Colonial American Architecture of the new republic. Nineteenth-century eclecticism and technical innovation. The formulation of a modern architectural theory. 3 one-hour lectures, 1 one-hour discussion. Prerequisite: ARC 363. Concurrent enrollment required.

ARC 465 Contemporary Architecture (4)

A study of the development of post-Bauhaus architecture in England, France, United States, Japan and South America. 2 two-hour lectures. Prerequisite: ARC 363.

ARC 466 Topics in Asian Architecture (4)

Examination of selected topics in the history of Asian architecture from ancient times to the present. 2 two-hour lectures. Prerequisite: ARC 363.

ARC 467 California Architecture: The Look of the Place (4)

California examined from the vantage of its architectural elements, its houses, workplaces, civic spaces, and roads, and their history. The influences, events, values, technologies, and processes which interact in the making of architecture and which result in human patterns upon the landscape of California will be surveyed. Field trips. 2 two-hour lectures. Prerequisite: ARC 363 or permission of instructor. Open to undergraduate non-majors.

ARC 468 Latin American Architecture (4)

A survey of architecture and urbanism in Latin America from the Pre-Columbian era to the present. Identification of design issues is addressed through case studies and design exercises. 2 two-hour lectures. Prerequisite: ARC 363.

ARC 471 Architectural Practice (4)

The administrative, legal, ethical aspects of the architectural profession and the relationship between the profession and the construction industry. 2 two-hour lectures. Prerequisite: ARC 203 or equivalent.

ARC 473 The Architect and the Development Process (4)

The potential roles of the architect in the development process discussed. Issues include goals, appraisal of needs, economics, and market analysis feasibility studies, appraisal procedures, cash flow methods, financing options, decisions, design and delivery processes, involvement at levels of design decisions and project administration. 2 two-hour lectures. Prerequisite: ARC 471.

ARC 474 Introduction to Computer-Aided Design in Architecture (4)

A laboratory exploration of the principles governing the use of computers in the architectural design process. This introductory CAD course is designed to give students a working knowledge of the AutoCAD system. 2 two-hour lectures. Prerequisites: ENV 120, ARC 203 or permission of instructor.

ARC 475 Advanced Computer-Aided Design in Architecture (4)

Advanced study in the use of computers in the architectural design process emphasizing enhanced visualization skills through the use of electronic media. 2 two-hour lectures. Prerequisite: ARC 474.

ARC 476 Business Development in Architecture (4)

The study of the relationship between the architect, employee, client, and contractor; including a study of new business development strategies, winning a commission, marketing, and client communications. 2 two-hour lectures. Prerequisites: ARC 471.

ARC 481 Behavioral Factors in Architecture (4)

Relationship of the concepts of psychology, social anthropology and sociology to the design of the built environment. The effects of architecture on its users. The relationship of social patterns and cultural mores to urban patterns. 4 lectures. Prerequisite: ARC 203 or permission of instructor.

ARC 482 Behavioral Factors in Architecture (4)

A course designed to study methods of programming and project evaluation in the development of architectural design work. 4 lectures. Prerequisite: ARC 481.

ARC 483 Behavioral Factors in Architecture (4)

A course designed to study in a seminar format case studies of the application of behavioral factors in the design process. 4 lectures. Prerequisite: ARC 482.

ARC 491 Bachelor's Project Research (2)

Identification, development of bibliography and initial research for bachelor's degree project. 2 seminars. Prerequisite: admission to ARC 405.

ARC 494 Bachelor's Project Programming (2)

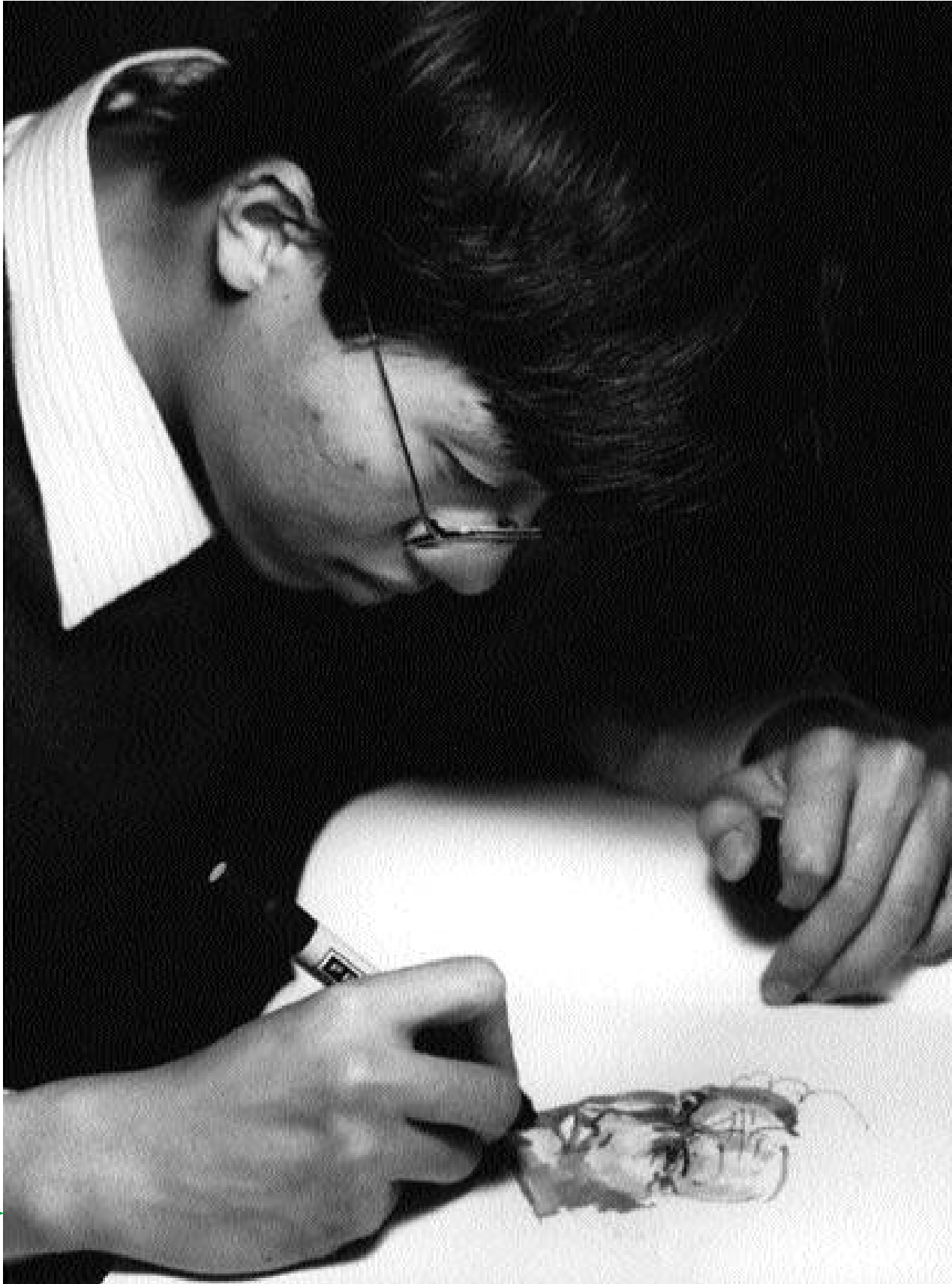
Continuation of ARC 491. Research and programming of the bachelor's degree project. 2 seminars. Prerequisite: ARC 491.

ARC 495 Bachelor's Degree Project (8)

Comprehensive architectural design project illustrating the individual student's proficiency in the design process. The independent design projects are meant to reveal an understanding of programming, human behavior, context, conceptual design, integration of structural and environmental systems, design development, and verbal and visual presentation. Prerequisites: ARC 406 and ARC 494.

ARC 499/499A/499L Special Topics for Upper Division Students (1-4)

Study of a selected topic, the subject matter and title to be initiated by the faculty in advance. Instruction is by lecture, laboratory, or a combination. Prerequisites: permission of instructor and ARC 203.



ART

Maren H. Henderson, Chair
 Babette Mayor, Coordinator, Graphic Design

Eileen M. Fears	Yoram Makow
Charles D. Fredrick	Sandra Rowe
Joe Hannibal	Stanley C. Wilson
Michael A. Jacobsen	

The Art Department program leading to the Bachelor of Arts offers three options for specialization: Fine Arts, Graphic Design, and Art History. A minor is also offered in Art History. In the interest of a well-rounded education, the program requires a full complement of science and liberal arts courses. The Art Department is an accredited institutional member of the National Association of Schools of Art and Design.

Fine Arts

All three options provide introductory courses in drawing, design, and an art history survey to establish a solid foundation. The Fine Arts students advance to classes in sculpture, ceramics, printmaking, painting, and photography. This program provides courses in traditional disciplines as well as training in areas such as multimedia, installation, digital media and video.

Total curriculum must include 60 units of upper division courses. A grade of C is required in any prerequisite for another course. Most courses are available for the general university student.

Graphic Design

Graphic Design students advance to printmaking in typography, graphic layout, drafting, illustration, printmaking techniques, and various computer graphics courses. Upper division students study advanced computer design, motion graphics, multimedia, and video for use in visual communications, entertainment, and advertising. Support courses in business and marketing are recommended.

The department gives special priority to state-of-the-art computer programs in the profession and trains students to keep abreast of the rapidly changing technology. A wide variety of internships in studios and industries throughout Southern California are available for upper division students.

Art History

The Art History program includes art from antiquity to the present in all parts of the world. It offers courses in contemporary art including film and video. Emphasis is placed on knowledge of key artists and works, on developing skills in analyzing content, in aesthetic analysis, and in scholarly research. Fieldtrips include museums and galleries throughout Southern California. Interested students are encouraged to work as interns in these areas.

CORE COURSES FOR FINEARTS AND GRAPHICDESIGNOPTIONS

Introduction to Drawing	.ART	140A	(3)
Foundations of Drawing	.ART	141A	(3)
Introduction to Design	.ART	150A	(3)
or Foundations of Design I	.ENV	101/101L	
History of Western Art	.ART	212	(4)
History of Western Art	.ART	213	(4)
History of Western Art	.ART	214	(4)
Senior Project	.ART	461	(2)
Senior Project	.ART	462	(2)
Undergraduate Seminar	.ART	463	(2)

FINE ARTS OPTION

Introduction to Clay	.ART	130A	(3)
Introduction to Crafts	.ART	190A	(3)
History of Tribal Art	.ART	211	(4)
or History of Asian Art	.ART	216	
Introduction to Painting	.ART	220A	(3)
Intermediate Drawing	.ART	242A	(3)
Life Drawing	.ART	244A	(3)
Printmaking	.ART	260A	(3)
Fundamentals of Sculpture	.ART	280A	(3)
Visual Arts in the 20th Century	.ART	312	(4)
or Contemporary Art	.ART	313	
3-D Design	.ART	387A	(3)
Minimum of 17 upper division units in Art			
with consent of advisor			(17)

FINE ARTS SUPPORT AND ELECTIVE COURSES

Introduction to Computers in Design	.ENV	120/120L	(2)
Intermediate Painting	.ART	324A	(3)
or Transparent Watercolor	.ART	325A	
Life Drawing	.ART	344A	(3)
or Expressive Drawing	.ART	345A	
Multimedia Painting	.ART	327A	(3)
or Intermediate Sculpture	.ART	381A	
Approved electives, chosen in consultation with advisor			(13)

GRAPHIC DESIGN OPTION COURSES

Intro to Computer as a Medium	.ART	155A	(3)
Intermediate Drawing	.ART	242A	(3)
or Life Drawing	.ART	244A	
Lettering and Typography	.ART	251A	(3)
Graphic Design I	.ART	252A	(3)
Computer Graphics I	.ART	255A	(3)
Printmaking	.ART	260A	(3)
Technical Illustration	.ART	342A	(3)
Drawing for Illustration	.ART	346A	(3)
Graphic Media & Production	.ART	351A	(3)
Graphic Design II	.ART	352A	(3)
Computer Graphics II	.ART	355A	(3)
Graphic Design III	.ART	452A	(3)
Computer Graphics III	.ART	455A	(3)

GRAPHIC DESIGN SUPPORT AND ELECTIVE COURSES

2-D Design	.ART	253A	(3)
History of Design	.ART	311	(4)
Visual Arts in the 20th Century	.ART	312	(4)
or Contemporary Art	.ART	313	
Fine Arts Electives			(13)
Photography	.COM	131/131L	(2/2)
Principles of Marketing	.IBM	301	(4)
Promotional Strategies	.IBM	307	(4)
May include:			
Computer Graphics IIB	.ART	356A	
Computer Graphics IIIB	.ART	456A	
Approved electives in art and design			
chosen in consultation with advisor			(4)

Under approved electives students are encouraged to take courses in studies directly related to graphic design such as fine art, art history, communication, architecture, landscape architecture, theater, marketing, etc.

CORE COURSES FOR ART HISTORY OPTION

Introduction to Drawing	ART	140A	(3)
Introduction to Design	ART	150A	(3)
History of Western Art	ART	212	(4)
History of Western Art	ART	213	(4)
History of Western Art	ART	214	(4)
Art History Seminar	ART	418	(4)
Senior Project	ART	461	(2)
Senior Project	ART	462	(2)
Subtotal			(26)

ART HISTORY OPTION COURSES

Students in the Art History Option should choose 8 of the following. (Selection must include two non-European art history courses: ART 211, 216, 314, 315, ARC 466, 468).

History of Tribal Art	ART	211	(4)
History of Asian Art	ART	216	(4)
Japanese Art History	ART	309	(4)
Art of the United States	ART	310	(4)
History of Design	ART	311	(4)
Visual Arts in the 20th Century	ART	312	(4)
Contemporary Art	ART	313	(4)
Art of Mexico, Central and South America	ART	314	(4)
Art of the Ancient Near East	ART	315	(4)
Art of the Classical World	ART	316	(4)
Art of the Middle Ages	ART	317	(4)
Art of the Italian Renaissance	ART	318	(4)
Art of the Baroque Period	ART	320	(4)
Ancient and Medieval Architecture	ARC	361	(4)
Renaissance and Baroque Architecture	ARC	362	(4)
European Architecture (1750-1950)	ARC	363	(4)
Theory of Architecture and Urbanism	ARC	451	(4)
American Architecture	ARC	464	(4)
Contemporary Architecture	ARC	465	(4)
Topics in Asian Architecture	ARC	466	(4)
Topics in California Architecture	ARC	467	(4)
Latin American Architecture	ARC	468	(4)
Subtotal			(32)

ART HISTORY SUPPORT AND ELECTIVE COURSES

SUPPORT (16 units)

History of World Civilization	HST	101	(4)
History of World Civilization	HST	102	(4)
History of World Civilization	HST	103	(4)
History Methods	HST	300	
Subtotal			(16)

ELECTIVES (20 units)

Recommended Electives: (20 units)

Introduction to Painting	ART	220A	(3)
Printmaking	ART	260A	(3)
Subtotal			(20)

Students are advised to take courses in history, literature, music, theater, philosophy, anthropology or foreign languages which coordinate with their areas of specialty in art history. Students interested in graduate study should take at least one foreign language.

The following are also recommended:

Introduction to Cultural Anthropology	ANT	102	(4)
Introduction to Archaeology and Prehistory	ANT	103	(4)

Human Nature/Numan Affairs: A Biocultural View	ANT	201	(4)
World of Music	MU	103	(4)
Western Classical Music	MU	107	(4)
Music Literatures of Europe Before 1800	MU	240	(1)
Music Literatures of Europe After 1800	MU	241	(1)
Introduction to Philosophy	PHL	201	(4)
Religions of the World	PHL	220	(4)
Philosophy of the Arts	PHL	301	(4)
Intro to the Theater	TH	203	(4)
History of the Theater	TH	311	(4)
History of the Theater II	TH	312	(4)
History of the Theater III	TH	313	(4)
20th Century American Theater	TH	410	(4)
History of Costume	TH	481	(4)

GENERAL EDUCATION COURSES

Area 1:

Select one approved course from each area. (12)

Area 2:

Must include at least one laboratory class.

Select one approved course from each area. (16)

Area 3:

Select one approved course from each area. (28)

Area 4:

United States History HST 202 (4)

Introduction to American Government PLS 201 (4)

Area 5:

See advisor. (8)

The total curriculum must include 60 units of upper division courses.

ART HISTORY MINOR

Required courses:

History of Western Art	ART	212	(4)
History of Western Art	ART	213	(4)
History of Western Art	ART	214	(4)

The student will select one of the following:

History of Tribal Arts	ART	211	(4)
History of Asian Art	ART	216	(4)
Art of Mexico, Central and South America	ART	314	(4)

The student will select three of the following:

History of Art in the United States	ART	310	(4)
History of Design	ART	311	(4)
Visual Arts in the 20th Century	ART	312	(4)
Contemporary Art	ART	313	(4)
Art of the Ancient Near East	ART	315	(4)
Art of the Classical World	ART	316	(4)
Art of the Middle Ages	ART	317	(4)
Art of the Italian Renaissance	ART	318	(4)
Art of the Baroque	ART	320	(4)
Art History Seminar	ART	418	(4)

COURSE DESCRIPTIONS

Courses in the Graphic Design option are open only to declared art majors.

ART 110 The Visual Arts (4)

Introduction to basic forms, styles, and aesthetics of the visual arts. Includes Western and Non-Western cultures. 4 lecture discussions.

ART 130A Introduction to Clay (3)

Exploration of fundamentals of ceramic materials utilizing slab, coil, and mold-making. Emphasis on developing creative ability. 6 hours activity.

ART 140A Introduction to Drawing (3)

Analysis and practice of drawing. Problems involving development of perception. Emphasis on concepts and methods. 6 hours activity.

ART 141A Foundations of Drawing (3)

Study of drawing with emphasis on depictive concepts, materials, tools and techniques. 6 hours activity. Prerequisite: ART 140 or permission of instructor.

ART 150A Introduction to Design (3)

Development of appreciative and creative skills. Variety of materials used, with an emphasis on two-dimensional design concepts. 6 hours activity.

ART 155A Introduction to the Computer as a Medium (3)

An introduction to the use of personal computers in graphic design, visual communication and fine arts. Emphasis on aesthetics and creative expression in computer generated images created through the use of leading edge software and a variety of input devices. 6 hours activity. Prerequisite: ART 105A.

ART 190A Introduction to Crafts (3)

Basic projects with various craft materials. Development of two- and three-dimensional skills and concepts through the materials and their properties. Criteria applied to craft materials. 6 hours activity.

ART 200 Special Study for Lower Division Students (1-2)

Individual or group investigation, research, studies or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

ART 211 History of Tribal Arts (4)

Art of tribal cultures (African, Oceanic, North American Indian) within context of religious beliefs and social function. 4 lectures.

ART 212 History of Western Art (4)

Comprehensive survey and analysis of the development of art in Western civilization from prehistoric times to the Renaissance. 4 lectures.

ART 213 History of Western Art (4)

Comprehensive survey and analysis of the development of art in Western civilization from the Renaissance to the 18th century. 4 lectures.

ART 214 History of Western Art (4)

Comprehensive survey and analysis of the development of art in Western civilization from the 18th to the 20th centuries. 4 lectures.

ART 216 History of Asian Art (4)

Survey of art and architecture of India, Southeast Asia, China, Korea and Japan. 4 lecture discussions.

ART 220A Introduction to Painting (3)

Image as painting. Varied projects designed to foster development of visual equivalents for ideas and emotions using basic painting skills. 6 hours activity. Suggested: ART 140A, 141A and 150A.

ART 225A Fundamentals of Watercolor Painting (3)

Methods and techniques with transparent watercolor. Outdoor sketching and studio projects. 6 hours activity. Prerequisite: ART 140A and ART 150A or permission of instructor.

ART 242A Intermediate Drawing (3)

A synthesis of the basic drawing elements (line, value, texture, composition) and perspective with an imaginative and self-expressive use of material. 6 hours activity. Prerequisite: ART 140A and ART 141A or permission of instructor.

ART 244A Beginning Life Drawing (3)

Skills and techniques in drawing the human figure from studio models. 6 hours activity. Prerequisite: ART 140A or permission of instructor.

ART 251A Lettering and Typography (3)

Development of appreciative and skillful usage of alphabets. Techniques of forming and spacing letters. 6 hours activity.

ART 252A Graphic Design I (3)

Design principles of visual communication. Projects in page layout, corporate image, and advertising design. 6 hours activity. Prerequisite: ART 251A or permission of instructor.

ART 253A Two-Dimensional Design (3)

Elements and principles of two-dimensional design, especially color theory and visual perception. 6 hours activity. Prerequisite: ART 150A or permission of instructor.

ART 255A Computer Graphics I (3)

Continued study and use of personal computers in graphic design and visual communication. Emphasis on aesthetics in computer-generated design. 6 hours activity. Prerequisite: ART 155A. May be repeated once for credit.

ART 260A Printmaking (3)

Method and techniques of printmaking. Relief and intaglio processes. 6 hours activity.

ART 262A Screen Printing (3)

Screen printing as an art form using paper, glue, lacquer film stencils and photo techniques. 6 hours activity.

ART 280A Fundamentals of Sculpture (3)

Fundamentals of sculpture involving modeling, carving or forming clay, plaster, wood, stone and metal. 6 hours activity. Suggested: ART 130A and ART 190A.

ART 288A Exhibition Design (3)

Practices and projects in exhibition design and display. Includes wall display and gallery installation. 6 hours activity.

ART 299/299A/299L Special Topics for Lower Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, activity, laboratory, or a combination. Prerequisite: permission of instructor. Corequisites may be required.

ART 309 Japanese Art History (4)

A historical survey of the arts of Japan from pre-history to the present, including the forms, styles, and aesthetics of the arts of all strata of society. 4 lectures.

ART 310 Art of the United States (4)

Survey of the art of the United States from the provincial art of the colonies to the key role of American artists in the development of modern art. 4 lectures.

ART 311 History of Design (4)

Survey of the great periods of design from ancient to modern with emphasis on the modern period. Includes both western and non-western civilizations. Analysis of principles and methods. 4 lectures.

ART 312 Visual Arts in the 20th Century (4)

Comprehensive survey and analysis of the founding movements and key developments in the history of modern art in Europe and the United States and other centers from 1900 to the present. 4 lectures.

ART 313 Contemporary Art (4)

Analysis of the visual arts in Europe and the United States, including film, in the last quarter-century with special attention to the current scene. 4 lectures. Prerequisite: ART 312 or permission of instructor.

ART 314 Art of Mexico, Central and South America (4)

Arts of pre-Columbian civilizations and the colonial period to the present. 4 lecture discussions.

ART 315 Art of the Ancient Near East (4)

Survey of the arts of ancient civilizations, primarily Egypt and Mesopotamia, showing the interrelations and cultural exchanges of the ancient world. 4 lectures.

ART 316 Art of the Classical World (4)

Survey of the arts of the classical world; the development of Greek, Etruscan, and Roman art. 4 lectures.

ART 317 Art of the Middle Ages (4)

Survey of art and architecture of the European Middle Ages, from early Christian art through late Gothic. 4 lectures.

ART 318 Art of the Italian Renaissance (4)

Survey of art and architecture of Italy of the 14th through 16th centuries. 4 lectures.

ART 320 Art of the Baroque Period (4)

Survey of art and architecture of the 17th and 18th centuries in both Northern and Southern Europe. 4 lecture discussions. Prerequisite: ART 212 or 213 or 214 or permission of instructor.

ART 324A Intermediate Painting (3)

Painting methods and techniques with emphasis on form and

composition. 6 hours activity. Prerequisite: ART 220 or permission of instructor. May be repeated for total of 9 units.

ART 325A Transparent Watercolor (3)

Methods and techniques with transparent watercolor. Outdoor sketching and studio projects. 6 hours activity. Prerequisite: ART 225A or permission of instructor. May be repeated for total of 9 units.

ART 327A Multimedia Painting (3)

Painting projects in mixed media. Discovering visual effects by combining traditional and nontraditional methods and techniques. 6 hours activity. Prerequisite: ART 220A or permission of instructor. May be repeated for total of 9 units.

ART 332A Pottery (3)

Basic methods of forming, decorating, glazing and firing pottery forms with an emphasis on use of the potter's wheel. 6 hours activity. May be repeated for a total of 9 units.

ART 334A Ceramics (3)

Intensified study of ceramic and sculptural forms; study of glaze calculation and firing processes. 6 hours activity. Prerequisite: ART 130A or permission of instructor. May be repeated for a total of 9 units.

ART 335A Raku (3)

Introduction to asymmetrical forms with an emphasis on low-fire glaze calculations. Aspects of primitive kiln construction with concentration on reduction firings. 6 hours activity. Prerequisite: ART 130A or permission of instructor.

ART 338A Ceramics: Glaze Calculations (3)

Analytical approach to the development of glazes; working knowledge of the empirical formula; understanding of glaze materials. 6 hours activity. Prerequisite: ART 130A.

ART 342A Technical Illustration (3)

Basic mechanical drawing techniques and interpretations; architectural drafting, furniture detailing, blueprint reading, and graphic communication. 6 hours activity. Prerequisite: ART 242A or permission of instructor.

ART 344A Life Drawing (3)

Drawing for creative expression from studio models using variety of drawing materials. 6 hours activity. Prerequisite: ART 244A or permission of instructor. May be repeated for a total of 9 units.

ART 345A Expressive Drawing (3)

Advanced problems in draftsmanship with special emphasis on linear and textural expression. 6 hours activity. Prerequisite: ART 242A or permission of instructor. May be repeated for a total of 9 units.

ART 346A Drawing for Illustration (3)

Developing graphic images that accurately depict objects and situations. Communicating concepts through graphic media. 6 hours activity. Prerequisite: ART 244A or permission of instructor. May be repeated for a total of 9 units.

ART 351A Graphic Media and Production (3)

Advanced study of the graphic media and their practical applications.

Methods and procedures for preparing two-dimensional design for reproduction. 6 hours activity. Prerequisites: ART 251A, 252A.

ART 352A Graphic Design II (3)

Advanced projects in layout, corporate image and advertising design. 6 hours activity. Prerequisite: ART 251A, 252A, 351A or permission of instructor. May be repeated once for credit.

ART 355A Computer Graphics II (3)

Introduction to web page development and 3D modeling for short animation. Emphasis will be on learning HTML, web development software, and 3D rendering software. Prerequisite: ART 255A. 6 hours activity, ART 355A or permission of instructor. May be repeated once for credit.

ART 356A Computer Graphics IIB (3)

Continued study of web page development and 3D modeling for short animation. 6 hours activity. Prerequisite: ART 355A or permission of instructor. May be repeated once for credit.

ART 361A Relief Printmaking (3)

Exploration of materials and processes in relief printing including block carving, collage and assemblage techniques. 6 hours activity. Prerequisite: ART 260A or permission of instructor. May be repeated for a total of 9 units.

ART 362A Advanced Screen Printing (3)

Advanced projects in screen printing. 6 hours activity. Prerequisite: ART 262A or permission of instructor. May be repeated for a total of 9 units.

ART 363A Intaglio Printmaking (3)

Techniques and skills in intaglio methods of printmaking including drypoint, etching, aquatint, mezzotint, and engraving. 6 hours activity. Prerequisite: ART 260A or permission of instructor. May be repeated for a total of 9 units.

ART 364A Lithography (3)

Techniques and skills in lithographic methods of printmaking on metal plates. 6 hours activity. Prerequisite: ART 242A and ART 260A or permission of instructor. Suggested: ART 345A. May be repeated for a total of 9 units.

ART 375/375A Photography as an Expressive Art Form (3)

Explores the technical and aesthetic aspects of photography for creative expression in the fine arts and design. 6 hours lecture/activity. Prerequisite: COM 131/131L or experience in black/white darkroom techniques, and permission of instructor. Corequisites: ART 375/375A.

ART 377A Video (3)

Introduction to video practice, emphasizing the image-making process and proficiency with video equipment, and exploring strategies for using video as a medium for artistic expression and social inquiry. 6 hour activity. May be repeated for a total of 9 units.

ART 381A Intermediate Sculpture (3)

Work in sculpture using variety of techniques and materials. 6 hours activity. Prerequisite: ART 280A or permission of instructor. May be repeated for a total of 9 units.



ART 387A Three-Dimensional Design (3)

Theory and application of aesthetic elements in three-dimensional forms. 6 hours activity. Prerequisite: ART 280A or permission of instructor. May be repeated for a total of 9 units.

ART 388A Gallery and Exhibition Design (3)

Professional practices in gallery exhibition design and installation. 6 hours activity. Prerequisite: ART 288A or permission of instructor. May be repeated for a total of 9 units.

ART 395A Crafts Design (3)

Development of concepts, methods, and skills in basic craft media such as clay, wood, metal, and fiber construction. 6 hours activity. Prerequisite: ART 190A or permission of instructor. May be repeated for a total of 9 units.

ART 400 Special Study for Upper Division Students (1-2)

Individual or group investigation, research, studies or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

ART 405 Art and the Child (4)

Understanding the development of visual language and perception through study of children and their art. 4 lecture discussions.

ART 418 Art History Seminar (4)

Intensive study of selected issues and topics in the history of art, with emphasis on developing skills in research and writing. Each seminar will have a sub-title describing its focus. Essential for prospective graduate students in Art History. 4 lecture discussions. Prerequisites: ART 212, 213, and 214.

ART 424A Advanced Painting/Acrylic (3)

Advanced methods and techniques in acrylic media and compositional development. 6 hours activity. Prerequisite: ART 324A or permission of instructor. May be repeated for a total of 9 units.

ART 425A Advanced Watercolor (3)

Advanced techniques in wet, cross wash and compositional development. 6 hours activity. Prerequisite: ART 225A, 325A or permission of instructor.

ART 428A Advanced Painting (3)

Advanced work in relationship of form to idea. Greater development of personal imagery and paint materials. 6 hours activity. Prerequisite: ART 345A and ART 424A or permission of instructor. May be repeated for a total of 9 units.

ART 430A Advanced Ceramics (3)

Advanced work in ceramic sculpture and design in clay. 6 hours activity. Prerequisite: ART 332A or 334A or permission of instructor. May be repeated for a total of 9 units.

ART 452A Graphic Design III (3)

Advanced projects in graphic design. 6 hours activity. Prerequisite: ART 253A, 352A or permission of instructor. May be repeated once for credit.

ART 455A Computer Graphics III (3)

Introduction to motion graphics using video and computer. Emphasis is on the creation of images in motion as may be used in visual communication. Prerequisite: ART 355A. 6 hours activity. May be repeated once for credit.

ART 456A Computer Graphics IIIB (3)

Continued study of motion graphics, video, and CD development, using computers. Emphasis is on creation of images in motion to be used in visual communication. 6 hours activity. Prerequisite: ART 455A. May be repeated once for credit.

ART 458 Internships in the Fine Arts and Graphic Design (1-2)

On-the-job training involving learning and production. Department guidelines must be followed, and internships must be approved in advance by department internship coordinator. One unit of credit given for each 50 or more hours of training with artist or design professional. Prerequisite: contract with instructor and sponsor. Total credit limited to 4 units with a maximum of 2 per quarter.

ART 461, 462 Senior Project (2) (2)

Selection and completion of a project under faculty supervision and culminating in a public exhibit or presentation of research. Minimum 120 hours total time. Prerequisite: senior standing and completion of 12 units in area of emphasis.

ART 463 Undergraduate Seminar (2)

An open forum of senior students in which the latest developments and practices in art criticism, education, and professional studio and gallery management are discussed. 2 lectures.

ART 478A Time-based Media (3)

An intermedia approach to creative application in video, film sound, and multi-image, with emphasis on conceptual and project development, and a special awareness for the shifting paradigm of time-based media. 6 hours activity. Prerequisites: ART 377A, ART 355A, or permission of instructor. May be repeated for a total of 9 units.

ART 482A Installation, an Introduction to Conceptual Art (3)

Installation art, as a vehicle for 3-dimensional, conceptual self-expression, explores concept, content, format, technique, and documentation in the manipulation of hybrid materials and methods in both gallery and site-specific/public context. 6 hours activity. Prerequisites: ART 280A or permission of instructor. May be repeated for a total of 9 units.

ART 484A Advanced Sculpture (3)

Intensified study of sculpture with emphasis on new developments in sculptural media. 6 hours activity. Prerequisite: ART 381A or permission of instructor. May be repeated for a total of 9 units.

ART 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, activity, laboratory, or a combination. Prerequisite: permission of instructor. Corequisites may be required.

LANDSCAPE ARCHITECTURE

Kenneth S. Nakaba, Chair

Kyle D. Brown	D. Rodney Tapp
Jeffrey K. Olson	Takeo Uesugi
Phillip N. Pregill	Noel Dorsey Vernon
Joan Safford	Mark J. von Wodtke
Sharon Stine	Joan Woodward

Landscape architects are professionally concerned with the design, management, preservation, and use of the land. The curriculum in Landscape Architecture provides a foundation in all of these areas with particular emphasis on design, along with the cultural and technical subjects that support it. Coursework includes study of the elements and principles of art, design and planning processes, graphic communication, plants and planting design, construction methods and environmental history. Instruction fosters the development of creative and problem-solving abilities, communication skills, technical knowledge, environmental awareness and professional attitudes. In most courses, students develop design proposals or technical solutions for actual sites with instruction, guidance, and critiques from faculty members. In the final year of study, students may choose to emphasize urban or regional landscape issues.

The Bachelor of Science in Landscape Architecture is a professional degree, nationally accredited by the Landscape Architectural Accreditation Board and approved by the California Board of Landscape Architects. Holders of this degree find career opportunities in private practice; with municipal, county and state departments of planning and of parks and recreation; with corporate organizations; and with federal agencies such as the United States National Forest Service and Park Service. The student organization is affiliated with the American Society of Landscape Architects.

The curriculum requires a minimum of four years. New students must begin the program in the fall quarter. Students may enter the program directly from high school or as transfers from other institutions. In order to enter the four-year design sequence at the second year level, a portfolio review is required. Students must achieve a grade of "C" or better in all core courses in order to advance in the program. Concurrent enrollment in core courses is required for each year within the curriculum.

Students who maintain a grade point average of 3.2 or higher are eligible for membership in Sigma Lambda Alpha, a national honorary society for students of landscape architecture.

CORE COURSES FOR MAJOR

Required of all students. A 2.0 cumulative GPA is required in core courses, including option courses for the major, in order to receive a degree in the major.

Design Foundations I	ENV	101/L	(4)
Introduction to Landscape Architecture Design	LA	102/L	(4)
Landscape Design Methods	LA	103/L	(3)
Introduction to the History of Landscape Architecture	LA	121	(3)
Basic Landscape Design	LA	201/L	(3)
Basic Landscape Design	LA	202/L	(3)
Basic Landscape Design	LA	203/L	(4)
Landscape Graphics	LA	251/L	(3)
Computer Applications	LA	252/L	(3)
Plants and Design	LA	241/L	(3)

Plants and Design	LA	242/L	(3)
Plants and Design	LA	243/L	(3)
Intermediate Landscape Design	LA	301/L	(5)
Intermediate Landscape Design	LA	302/L	(5)
Intermediate Landscape Design	LA	303/L	(5)
Landscape Construction	LA	331/L	(4)
Landscape Construction	LA	332/L	(4)
Landscape Construction	LA	333/L	(5)
Plant Design	LA	341/L	(3)
Plant Design	LA	342/L	(3)
Advanced Landscape Design	LA	401/L	(5)
Advanced Landscape Design	LA	402/L	(5)
Advanced Landscape Design	LA	403/L	(5)
#Regional Landscape History	LA	322/L	(3)
#The Urban Landscape	LA	423/L	(3)
#World Gardens	LA	424/L	(3)
#Asian Gardens	LA	425	(3)
Senior Seminar	LA	463	(2)
Landscape Architecture Practice	LA	464	(2)
Landscape Architecture Project	LA	465	(2)

#Select 2 of the four courses above.

SUPPORT AND GENERAL EDUCATION COURSES

(Required of all Students)

General Surveying	AE	232/L	(3)
Introduction to Drawing	ART	140A	(3)
Landscape Horticultural Principles	HOR	131/L	(4)
Basic Soil Science	SS	231/L	(4)
Introduction to Computers in Design	ENV	120	(2)

GENERAL EDUCATION COURSES

Area 1:

A. Freshman English I	ENG	104	(4)
B. Advocacy and Argument	COM	204	(4)
C. Freshman English II	ENG	105	(4)

Area 2:

A. Trigonometry	MAT	106	(4)
B. Fundamentals of Chemistry	CHM	121	(4)
C. Life Science	BIO	110/111L	(4)
D. Any approved upper division math or science course			(4)

(See advisor)

Area 3:

A. History of Art and Design I	ENV 115/115A	(4)
B. Select one course		(4)
C. Select one course		(4)
D. Business and Its Environment	TOM 103	(4)
E. Select one course		(4)
F. Select one course		(4)
G. General Psychology	PSY 201	(4)

Area 4:

United States History	HST	202	(4)
Introduction to American Government	PLS	201	(4)

Area 5:

See Department advisor		(8)
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DIRECTED ELECTIVES

See Department for approved list. (12)

COURSE DESCRIPTIONS

Open to LA majors only unless otherwise specified.

LA 102/102L Introduction to Landscape Design (1/2)

Principles of basic design and their application in the development of design concepts; use of creative problem-solving techniques in landscape design; sensory exploration and interpretation of factors that shape natural, physical, and cultural (man-made) landscapes. The course is site- and site-user-related, with an emphasis upon contextualism and the determinants of design and form. 1 one-hour lecture, 2 three-hour laboratories. Prerequisite: ENV 101/L with a grade of "C" or better.

LA 103/103L Landscape Design Methods (1/2)

Techniques for organizing and synthesizing varied elements in the shaping of landscape form; recognition of major design determinants and the role of landscape architects and other professionals in dealing with diverse aspects of design, stressing application of ideas through construction of full-scale experimental projects. 1 one-hour lecture, 2 three-hour laboratories. Prerequisite: LA 102, with a grade of C or better.

LA 121 Introduction to the History of Landscape Architecture (3)

Study of human beings' efforts to create and control their physical environment, emphasizing major historical landscapes in their relationships with cities and buildings, and in terms of their cultural, social, political and economic contexts. 3 lectures. May be taken by non-LA majors with permission of instructor.

LA 200 Special Study for Lower Division Students (1-2)

Individual or group investigation, research, studies or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

LA 201/201L, 202/202L, 203/203L Basic Landscape Design (1/2) (1/2) (2/2)

Fundamental concepts of site-planning and design and their application to basic landscape problems, with particular emphasis on varying conditions of climate, plant communities, land forms and orientation. LA 201, 202: 1 lecture, 2 three-hour laboratories. LA203: 2 lectures, 2 three-hour laboratories. Prerequisite: LA 103, with a grade of C or better. A grade of C or better is required to advance within the sequence. Concurrent enrollment required.

LA 251/251L Landscape Graphics (1/2)

Development of communication skills emphasizing perspective and delineation techniques as they relate to landscape architecture. May be repeated once for credit. Laboratory course; 1 lecture, 2 three-hour laboratories. To be taken concurrently with LA 201. Prerequisite: LA 103, with a grade of C or better. Concurrent enrollment required.

LA 252/252L Computer Application in Landscape Architecture (1/2)

The process of computers as applied to projects in landscape architecture design, including AutoCAD, LandCADD, presentation techniques, Internet technology applications and computer protocol conventions. 1 one-hour lecture, 2 three-hour laboratories. Prerequisites: ENV 120 or equivalent; LA 201/L, 251/L with a grade of "C" or better.

LA 241/241L, 242/242L, 243/243L Plants and Design (1/2) (1/2) (1/2)

An introduction to planting design issues based upon ecological, functional and aesthetic design principles. Instruction includes the identification of plant materials appropriate for use in California including trees, shrubs, vines and herbaceous plants. 1 lecture, 2 three-

hour laboratories. A grade of C or better is required to advance within the sequence. Concurrent enrollment required.

LA 299/299A/299L Special Topics for Lower Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination. Prerequisite: permission of instructor. Corequisites may be required.

LA 301/301L, 302/302L, 303/303L Intermediate Landscape Design (2/3) (2/3) (2/3)

Application of design concepts and principles to more difficult problems involving a wide range of conditions in the physical environment. 2 lectures, 3 three-hour laboratories. Prerequisites: LA 203, 241, 242, 243, with a grade of C or better; ENG 104, 105 or equivalent. A grade of C or better is required to advance within the sequence. Concurrent enrollment required.

LA 322/322L Regional Landscape History (2/1)

How the landscape has guided human activity and habitat patterns on the regional and global scales, and how these patterns have in turn changed the natural landscape. Emphasis on major periods of urbanization, agricultural expansion, and development of recreation, conservation and open space systems, along with projections for the future. 2 lectures, 1 three-hour laboratory. Prerequisite: LA 121. May be taken by non-LA majors with instructor's permission.

LA 331/331L, 332/332L, 333/333L Landscape Construction (2/2) (2/2) (3/2)

Landscape construction problems involving the formulation and preparation of plans for grading, drainage, staking, reference and lighting, planting, irrigation, construction details, structures, and other working drawings; relationship to specifications and contract documents. For LA 331, 332: 2 lectures, 2 three-hour laboratories. For LA 333: 3 lectures, 2 three-hour laboratories. Prerequisites: MAT 106; LA 203, AE 232. A grade of C or better is required to advance within the sequence. Concurrent enrollment required.

LA 341/341L, 342/342L Planting Design (1/2) (1/2)

A continuation of LA 241, 242, 243 with greater emphasis given to the organization and composition of plant materials towards solving design problems. Instruction includes development of planting plans, details, cost estimates, and specifications. 1 lecture, 2 three-hour laboratories. Prerequisites: LA 203, 241, 242, 243. A grade of C or better is required to advance within the sequence. Concurrent enrollment required.

LA 400 Special Study for Upper Division Students (1-2)

Individual group investigation, research, studies or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

LA 401/401L, 402/402L, 403/403L Advanced Landscape Design (2/3) (2/3) (2/3)

Processes of design as applied to complex projects in landscape architecture, including proposal, programming, analysis, concept development and presentation. Each student selects an area of concentration: urban, rural, regional, or Special Study. 2 lectures, 3 three-hour laboratories. Prerequisites: LA 303, LA 332, LA 342, with a grade of C or better. A grade of C or better is required to advance within the sequence. Concurrent enrollment required.

LA 423/423L The Urban Landscape (2/1)

Urban space as traced through history, concentrating primarily on the development of the square and the park from the classic agora to the complexities of public space in modern western cities. The design of the city park is traced from the industrial era to present. Innovations and changing concepts in leisure and recreation are noted. 2 lectures, 1 three-hour laboratory. Prerequisite: LA 121. May be taken by non-LA majors with instructor's permission. Concurrent enrollment required.

LA 424/424L World Gardens (2/1)

History of garden design emphasizing Italian Renaissance, 17th century France and the English Natural period. Primary development of American gardens from colonial times to present. Oriental, Moorish, Hindu and Mogul gardens. 2 lectures, 1 three-hour laboratory. Prerequisite: LA 121. Concurrent enrollment required.

LA 425 Asian Gardens (3)

Development of an understanding of planning and design in the gardens of East-Asia including China, Korea, and Japan, with greater emphasis on history, culture, and arts. Indian and South-East Asian influences are also included. Garden concept to form is discussed in the comparative approaches to garden designs of the regions. 3 lectures. Prerequisite: LA 121. May be taken by non-LA majors with permission of instructor.

LA 441 Internship (1-2)

On-the-job training in the profession dealing with some aspect of landscape architecture. The experience must involve learning as well as production. Internships must be approved in advance by the departmental internship coordinator. One unit of credit is granted for each 50 hours of training under a licensed professional. May be repeated for a maximum of 6 units. Prerequisite: approval of instructor.

LA 454 Seminar on Landscape Architecture Research (2)

Discussion and analysis of basic research methods; investigation of contemporary research issues in landscape architecture. Seminar, 2 hours.

LA 463 Senior Seminar (2)

Discussions of environmental design problems. The role of the landscape architect in society. Seminar, 2 hours.

LA 464 Landscape Architectural Practice (2)

The practice of landscape architecture, covering professional responsibilities and ethics, client and contractor relationships. Lecture, 2 hours.

LA 465 Landscape Architectural Project (2)

Selection and completion of a project with formal report done under faculty supervision. Projects typical of problems which graduates must solve in their field of employment. Minimum of 120 hours.

LA 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination. Prerequisite: permission of instructor. Corequisites may be required.

Graduate courses are listed in the "Graduate Studies" section of this catalog.

URBAN AND REGIONAL PLANNING

Gwendolyn H. Urey, Chair

Felix R. Barreto	Jerry Mitchell
David E. Bess	Gail Sansbury
Herschel Farberow	Richard W. Willson
Charles E. Loggins	Ana Maria C. Whitaker

Professionals in Urban and Regional Planning work to preserve and enhance the natural and built environment. They address a wide range of issues ranging from habitat conservation to historic preservation, from transportation to recreation, from neighborhood housing to regional shopping centers. Planning students learn about economic, legal, political, ecological, and social aspects of urban problems as well as urban design, land use, and the growth of human settlements. Throughout the program, students study real-life issues and develop solutions to them, using cutting-edge technology such as Geographic Information Systems (GIS). By the time they graduate, planning students are ready to apply current planning theories and methods to improve communities around California, the nation, and the world.

The Bachelor of Science in Urban and Regional Planning is accredited by the Planning Accreditation Board. For information about the graduate program in Urban and Regional Planning, see the Graduate Studies section of this catalog.

QUANTITATIVE RESEARCH MINOR

The Quantitative Research Minor is an interdisciplinary program which can be taken by students majoring in any field other than Mathematics. Its purpose is to prepare students to conduct quantitative analyses in their chosen discipline. Students acquire practical experience using statistics, principles of experimental design, survey and data analysis techniques. This minor is particularly suited for students majoring in Urban and Regional Planning. A full description of this minor is included in the "University Programs" section of this catalog.

CORE COURSES FOR MAJOR

A 2.0 cumulative GPA is required, including option courses for the major, in order to receive a degree in the major.

Design Foundations I	ENV	101/101L	(4)
Introduction to Computers and Design	ENV	120/120L	(2)
Introduction to Cities and Planning	URP	101/101A	(4)
Process and Theory of Planning	URP	102/102A	(4)
Evolution of Cities	URP	104	(4)
Communication Graphics for Planning	URP	203/203L	(4)
Special Topics: Planning Design Awareness	URP	299/299L	(4)
Quantitative Methods for Planning	URP	331/331L	(4)
Applied Demography for Planning	URP	332/332L	(4)
Planning and Policy Analysis	URP	334/334A	(4)
Urban Land Use Planning and Theory	URP	335/335A	(4)
Planning Public Infrastructure	URP	337/337L	(4)
Institutional Framework for Planning	URP	351	(4)
Intergovernmental Framework for Planning	URP	352	(4)
Community Planning Studio I	URP	431/431L	(4)
Community Planning Studio II	URP	432/432L	(4)
Senior Project	URP	461	(2)
Senior Project	URP	462	(2)
Undergraduate Seminar	URP	463	(4)

Choose a minimum of 32 units with approval of advisor from courses listed below:

Special Study for Upper Division Students	URP	400	(1-2)
Evolution of American Cities and Planning Movement	URP	411	(4)
Planning and Urban Design in Europe	URP	412	(4)
Community Development Theory and Process	URP	434/434A	(4)
Field Work	URP	441	(2-3)
Urban Growth Management	URP	466	(4)
Planning in a Global Economy	URP	475	(4)
Rural and Small Town Planning	URP	481/481A	(4)
The Urban Development Process	URP	483/483A	(4)
Neighborhood Revitalization	URP	484/484A	(4)
Urban Design Seminar	URP	485/485L	(4)
Geographic Information Systems Applications in Planning	URP	486/486L	(4)
Environmental Factors in Regional Planning	URP	487	(4)
Urban Transportation Planning	URP	488/488L	(4)
Advanced Planning Studio	URP	498/498L	(4)
Special Topics for Upper Division Students	URP	499	(1-4)

SUPPORT AND ELECTIVE COURSES

Freshman English II	ENG	105	(4)
History of Art and Design	ENV	115/115A	(4)
Statistics with Applications	STA	120	(4)
Principles of Economics	EC	201	(4)
Advocacy and Argument	COM	204	(4)
Urban Geography	GEO	315	(4)

GENERAL EDUCATION COURSES

See Advisor, 72 units required.

COURSE DESCRIPTIONS

URP 101/101A Introduction to Cities and Planning (3/1)

Study of the contemporary American city, with emphasis on observing and understanding urban phenomena. Uses examples from Southern California, with field trips. This course, required of all incoming planning majors, includes orientation to the planning curriculum and the profession. 3 lectures, 1 two-hour activity. Concurrent enrollment required.

URP 102/102A Process and Theory of Planning (3/1)

Study of urban and metropolitan development, theories of urban change, and the role of planning. Issues include planning in a pluralistic, multicultural society; the role of planning in government and the private sector; and the environmental and ethical responsibilities of planners. 3 lectures, 1 two-hour activity. Prerequisites: URP 101. Concurrent enrollment required.

URP 104 Evolution of Cities (4)

Historical review of cities from antiquity to modern times. The origins and development of cities in Europe, Asia, Africa, and America. Critical examination of social, economic, political, cultural and technological interrelationships that have determined city location, form, growth and decline over time. The relationships of those factors to modern urban planning. 2 two-hour lectures.

URP 203/203L Communications Graphics For Planning (2/2)

Examination and experimentation in graphic techniques as a communicative tool for planners. 2 lectures, 2 three-hour laboratories. Prerequisites: ENV 101 and ENV 102. Concurrent enrollment required.

URP 299/299A/299L Special Topics for Lower Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

URP 301 Principles of Urban Planning (4)

The planning function in government. The planning process. Principles for projecting land requirements and locations for various urban land uses. Ways of implementing the plans. Not open to URP majors. 4 lectures.

URP 331/331L Quantitative Methods for Planning (3/1)

Quantitative methods in the context of planning and decision-making. Review of probability and descriptive statistics. Types and sources of basic planning data. Collection and organization of data in tables, graphs, and figures. Analysis and interpretation of quantitative information. 3 lectures, 3 hours of laboratory. Prerequisites: URP 102, STA 120. Concurrent enrollment required.

URP 332/332L Applied Demography for Planning (3/1)

Introduces demographic concepts and terminology. Methods for making population estimates and projections. Organization and use of U.S. Census materials. Techniques for analyzing population characteristics, particularly for small geographic areas (counties and smaller). 3 lectures, 3 hours of laboratory. Prerequisite: URP 331. Concurrent enrollment required.

URP 334/334A Planning and Policy Analysis (2/2)

Theories and methods for evaluating planning proposals and projects. Use of analysis techniques drawn from the social sciences dealing with urban planning policies and programs. 2 lectures, 2 seminars. Prerequisites: URP 332, EC 201, COM 216. Concurrent enrollment required.

URP 335/335A Urban Land Use Planning and Theory (3/1)

Reviews macro-level land use shifts in metropolitan areas, focusing on problems of housing, transportation and the environment. Emphasis on spatio-economic/demographic patterns and dynamics between urban centers and suburbs as well as between metropolitan and non-metropolitan areas in the United States during the 20th century. 3 lectures, 1 two-hour activity. Prerequisite: URP 331. Concurrent enrollment required.

URP 337/337L Planning Public Infrastructure (3/1)

Examines how infrastructure systems such as transportation, energy, water, and public facilities serve people and their activities. Teaches skills for infrastructure planning, evaluation, and implementation. 3 lecture discussions, 3 hours of laboratory. Prerequisite URP 335. Concurrent enrollment required.

URP 351 Institutional Framework for Planning (4)

Introduces the institutional framework for planning. Reviews the development of the General Plan, zoning, and the legal basis for modern planning. Emphasis is placed on gaining an understanding of the legal process that planners work within and applicable constitutional rights. 4 lecture discussions. Prerequisites: URP 101 and URP 102.

URP 352 Intergovernmental Framework for Planning (4)

Introduces the modern intergovernmental framework for planning. Reviews the development of national, state, and regional land use policy, environmental controls and intergovernmental financing that provides the basis for modern land use planning and growth management. 4 lecture-discussions. Prerequisite: URP 351.

URP 400 Special Study for Upper Division Students (1-2)

Individual or group investigation, research, studies or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

URP 411 Evolution of American Cities and the Planning Movement (4)

Evolution of American development patterns. Emphasis on how location and form reflect the needs of changing multicultural communities. Planning as a social reform movement. Growth in California and the Los Angeles metropolitan region. Not open to graduate students. 4 lectures. Prerequisite: URP 351 or permission of instructor.

URP 412 Planning and Urban Design in Europe (4)

Illustrated lectures on contemporary planning and urban design theory and practice currently in evidence in Western Europe. Contemporary theories and concepts as related to present social concerns. Relevance of the European experience to the solution of America's urban problems. 4 lecture/seminars. Prerequisite: upper division standing.

URP 431/431L Community Planning Studio I (2/2)

Application of research, analysis and community planning procedures. Programming a planning activity. Using teamwork and communication in planning. 2 lectures, 6 hours of laboratory. Prerequisites: completion of 300 level core. Concurrent enrollment required.

URP 432/432L Community Planning Studio II (2/2)

Analysis and synthesis of planning and community design topics interpreted from problems or sub-issues emphasized in URP 431. 2 hours lecture, 6 hours laboratory. Prerequisite: URP 431 or approval by instructor. Concurrent enrollment required.

URP 434/434A Community Development Theory and Process (3/1)

Evolving theory and process of community development and local economic restructuring. Exploration of social and cultural continuity in the development process. Critical evaluation and discussion of market influences upon urban community and the development process. Exploration of long-range self-sufficiency and sustainability. Evaluation of specific development policies, programs and projects. Prerequisite: URP 332. Concurrent enrollment required.

URP 441 Field Work (2-3)

Practical application of urban and regional planning techniques through supervised field work. Written report and evaluation of experience required. (One unit of credit will be allowed for each 60 hours of field work.) May be repeated for a maximum of 6 units for undergraduates, maximum of 3 units for graduate credit. 1 lecture and 6 to 12 hours of field work. Prerequisite: permission of instructor.

URP 461, 462 Senior Project (2) (2)

Selection and completion of a project under faculty supervision. Projects typical of problems which graduates must solve in urban and regional planning field. Project results presented in a formal report. Minimum 60 hours total time per two-unit course. Prerequisite: All required URP 300-level courses, COM 216, successful completion of GWT.

URP 463 Undergraduate Seminar (4)

Intensive study of the legal, ethical, and professional aspects of urban and regional planning in public and private practice. Review of planning problems with regard to planning theory. 4 seminars. Prerequisite: all required URP 300-level courses.

URP 466 Urban Growth Management (4)

The impact of urban growth on the environment. Preparation of Environmental Impact Reports. Current methods, procedures and trends for managing urban growth. 4 lecture discussions. Prerequisite: URP 332.

URP 475 Planning in a Global Economy (4)

Major issues confronting planners in a global economy. Explores spatial, cultural and economic factors associated with major problems and examines development of appropriate policies and programs. 4 lecture discussions.

URP 481/481A Rural and Small Town Planning (3/1)

Theories and methods of planning in small towns and rural communities. The changing role of the traditional small town and agricultural trade center in rural development. Conflicts and contradictions of various development strategies. Rural resettlement programs. 3 lectures, 1 two-hour activity. Prerequisite: URP 434. Concurrent enrollment required.

URP 483/483A The Urban Development Process (3/1)

Introduction to the roles of the many participants in the design and development of urban projects. Procedural aspects of development, requests for proposals, methods of finance, project feasibility analysis, program evaluation and review, and government incentives. 3 lectures, 1 two-hour activity. Prerequisite: URP 332. Concurrent enrollment required.

URP 484/484A Neighborhood Revitalization (3/1)

Delimiting the urban neighborhood. Traditional functions and life cycle of urban neighborhoods. Revitalization policy options and strategies. Public and private sector involvement in neighborhood revitalization. Citizen-initiated revitalization programs. 3 lectures, 1 two-hour activity. Prerequisite: URP 434. Concurrent enrollment required.

URP 485/485L Urban Design Seminar (3/1)

Design in the planning process, with emphasis on research, analysis and programming for the context of design decisions. Methods of understanding human interaction with the built environment. Prerequisite: URP 203. 3 lectures, 1 three-hour laboratory. Concurrent enrollment required.

URP 486/486L Geographic Information Systems Applications in Planning (3/1)

Application of planning concepts and techniques using geographic information systems and database management tools. Field work and studio activities address contemporary planning and public policy issues. Prerequisite: URP 332, 3 lectures, 1 three-hour laboratory. Concurrent enrollment required.

URP 487 Environmental Factors in Regional Planning (4)

Analysis of environmental problems and the regional planning institutions that work to solve them. Review of contemporary planning practices and their application to emerging environmental issues. 4 lectures. Prerequisite: URP 332.

URP 488/488L Urban Transportation Planning (3/1)

Supply and demand management approaches to transportation planning. Land use/transportation relationships. Function of travel modes, modeling local and regional flows. Finance, politics and policy in transportation planning. 3 lecture-discussions, 1 three-hour laboratory. Prerequisite: URP 337.

URP 498/498L Advanced Planning Studio (3/1)

Study of a selected topic through advanced studio, subject matter to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. 3 seminars, 1 three-hour laboratory. Prerequisite: consent of instructor.

URP 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

Graduate courses are listed in the "Graduate Studies" section of this catalog.

