

Landscape Architecture

Bachelor of Arts (BA)

Berkeley's undergraduate curriculum in landscape architecture centers upon creative and ecologically tuned design and introduces students to the breadth of knowledge common to the profession. This program leads to the Bachelor of Arts (BA) degree in landscape architecture and provides the necessary education for students interested in entry-level professional practice.

At the heart of the undergraduate curriculum are three core studios: LD ARCH 101, LD ARCH 102, and LD ARCH 103. The core studios ensure that undergraduate students benefit from the Department's full range of interests and expertise.

Licensure and Accreditation

The BA degree is certified by the State of California and counts as part of the education/experience requirement of the Uniform National Examination (U.N.E.) as well as for the Landscape Architects Registration Examination (L.A.R.E.) for licensure. Please visit the Landscape Architects Technical Committee (<http://www.latc.ca.gov>) and the Council of Landscape Architectural Registration Boards (<https://www.clarb.org>) for more information about licensure in California.

Admission to the Major

Students must declare one of the CED majors at the time of application to the College. However, current UC Berkeley students may apply to change into the College of Environmental Design. Transfer applicants must complete two years worth of lower division coursework to be considered for admission to CED. For information regarding admission to the major for freshman, transfer students, and current students who wish to change majors or colleges, please see the College of Environmental Design (CED) page (<http://guide.berkeley.edu/archive/2014-15/undergraduate/colleges-schools/environmental-design/#choosingamajortext>) in this Bulletin, or the CED website (<http://ced.berkeley.edu/admissions/undergraduate>).

Minor Program

The Department does not offer a minor in Landscape Architecture. However, the Department offers a minor program in the History and Theory of Landscape Architecture and Environmental Design. This program introduces students to conceptual issues of landscape architecture. Open to all majors at UC Berkeley except Landscape Architecture.

Other Minor Offered by the Department of Landscape Architecture and Environmental Planning

The Department sponsors a minor in Sustainable Design, in conjunction with the Department of Architecture. For further information regarding this minor program, please see the program's page in this Bulletin (<http://guide.berkeley.edu/archive/2014-15/undergraduate/degree-programs/sustainable-design>).

In addition to the University, campus, and college requirements, listed on the College Requirements tab, students must fulfill the below requirements specific to their major program.

General Guidelines

1. All lower-division courses taken in fulfillment of major requirements must be completed with a grade of C- or better.
2. A minimum grade point average (GPA) of 2.0 must be maintained in upper- and lower-division courses used to fulfill the major requirements.
3. A minimum overall GPA of 2.0 for all courses taken at UC Berkeley is required for graduation.

For information regarding residence requirements and unit requirements, please see the College Requirements tab.

Lower-division Major Requirements, Freshman and Sophomore Year (Three courses)

LD ARCH 1	Drawing a Green Future: Fundamentals of Visual Representation and Creativity	4
Physical Science: Select one course from the following ¹		
EPS 50	The Planet Earth	
EPS 80	Environmental Earth Sciences	
ENV SCI 10 & 10L	Introduction to Environmental Sciences and Field Study in Environmental Sciences (if taken prior to Fall 2011)	
PHYSICS 7A	Physics for Scientists and Engineers	
PHYSICS 8A	Introductory Physics	
PHYSICS 10	Course Not Available	
PHYSICS C10	Descriptive Introduction to Physics	
Biological Science: Select one course from the following: ²		
BIOLOGY 1B	General Biology Lecture and Laboratory	
BIOLOGY 11 & 11L	Course Not Available and Course Not Available	
PLANTBI 40	The (Secret) Life of Plants	
ESPM 2	The Biosphere	
ESPM 6	Environmental Biology	
ESPM 101A	Course Not Available	
LD ARCH 12	Environmental Science for Sustainable Development	

¹ This course simultaneously satisfies the Physical Science breadth requirement (see the College Requirements tab).

² This course simultaneously satisfies the Biological Science breadth requirement (see the College Requirements tab).

Upper-division Major Requirements (Twelve courses)

LD ARCH 101	Fundamentals of Landscape Design	5
LD ARCH 102	Case Studies in Landscape Design	5
LD ARCH 103	Energy, Fantasy, and Form	5
LD ARCH 110	Ecological Analysis	3
LD ARCH 110L	Ecological Analysis Laboratory	2
LD ARCH 112	Landscape Plants: Identification and Use	4

LD ARCH 120	Topographic Form and Design Technology	3
LD ARCH 121	Design in Detail: Introduction to Landscape Materials and Construction	4
LD ARCH 134A	Drawing Workshop 1	3
LD ARCH 134B	Drawing Workshop II	3
LD ARCH 135	The Art of Landscape Drawing	3
LD ARCH 170	History and Literature of Landscape Architecture	3

Students who have a strong interest in an area of study outside their major often decide to complete a minor program. These programs have set requirements and are noted officially on the transcript in the memoranda section, but they are not noted on diplomas.

General Guidelines

1. All upper-division courses used to fulfill minor requirements must be completed with a grade of C- or above.
2. Any course used in fulfillment of minor requirements may also be used to fulfill major and upper-division CED non-major requirements.
3. Courses used to fulfill a breadth requirement may also be used to satisfy minor requirements.
4. Students may apply the non-CED version of a CED cross-listed course towards the minor.

Requirements

Lower-division Prerequisite

ENV DES 1	Introduction to Environmental Design	3
or LD ARCH 12	Environmental Science for Sustainable Development	

Upper-division Requirements

LD ARCH 110	Ecological Analysis	3
LD ARCH 130	Sustainable Landscapes and Cities	3
LD ARCH 140	Social and Psychological Factors in Open Space Design	3
LD ARCH 170	History and Literature of Landscape Architecture	3
LD ARCH/ AMERSTD C171	The American Designed Landscape Since 1850	3

For College Requirements, please refer to the College of Environmental Design (<http://guide.berkeley.edu/archive/2014-15/undergraduate/colleges-schools/environmental-design/#collegerequirementstext>) .

Each student's plan will vary, depending on interests. Students should see their adviser if they are interested in applying for graduate school, studying abroad, attending summer school, pursuing a minor or second major, etc.

For more detailed information regarding the courses listed below (e.g., elective information, GPA requirements, etc.), please see the Major Requirements tab.

				Freshman
	Fall	Units	Spring	Units
ENV DES 1		3 Reading & Composition B		4
Reading & Composition A		4-6 ENV DES 4A, 4B, or 4C		3

Bio Sci for Major (fills Breadth #1, BS)		3-4 LD ARCH 1		
Electives		0-4 Phys Sci for Major (fills Breadth #2, PS)		2-4
		10-17		13-15
		Sophomore		
	Fall	Units	Spring	Units
Breadth #3		3-4 ENV DES 4A, 4B, or 4C		3
Breadth #4		3-4 Breadth #5		3-4
ENV DES 4A, 4B, or 4C		3 Breadth #6		3-4
Elective		1-4 Breadth #7		3-4
		10-15		12-15
		Junior		
	Fall	Units	Spring	Units
LD ARCH 101		5 LD ARCH 102		5
LD ARCH 110		3 LD ARCH 170		3
LD ARCH 110L		2 CED Upper Div Non-Major #1		2-4
LD ARCH 134A		3 LD ARCH 112		4
LD ARCH 134B		3		
		16		14-16
		Senior		
	Fall	Units	Spring	Units
LD ARCH 103		5 LD ARCH 121		4
LD ARCH 120		3 CED Upper Div Non-Major #2		2-4
LD ARCH 135		3 CED Upper Div Non-Major #3		2-4
American Cultures or elective, if needed		1-4 LD ARCH 160 (or elective)		0-4
		12-15		8-16
Total Units: 95-125				

Learning Goals of the Major

- To communicate effectively in graphic, written, and verbal formats.
- To understand the relationship of the history and theory of landscape architecture.
- To acquire knowledge of the basic fundamentals of environmental design, particularly the implications of social and natural factors.
- To apply design principles in a range of sites and scales.

The CED Office of Undergraduate Advising provides a wide array of programmatic and individual advising services to prospective and current students, as well as to students in other colleges who are pursuing CED minors or taking CED courses. The professional advising team assists students with a range of issues including course selection, academic decision-making, achieving personal and academic goals, and maximizing the Berkeley experience.

Advising Staff

Architecture Major Adviser, Last Names A-N: Rachel Klein, 250 Wurster Hall, rachelk@berkeley.edu , 510-642-4944
 Architecture Major Adviser, Last Names O-Z & College Evaluator: Lauren Worrell, 250 Wurster Hall, worrell@berkeley.edu , 510-642-0928

Landscape Architecture Major Adviser: Omar Ramirez, 250 Wurster Hall, 510-642-0926

Sustainable Environmental Design: Lauren Worrell, 250 Wurster Hall, worrell@berkeley.edu , 510-642-0928

Urban Studies Major Adviser: Omar Ramirez, 250 Wurster Hall, 510-642-0926

Director, Undergraduate Advising: Susan Hagstrom, 250 Wurster Hall, hagstrom@berkeley.edu , 510-642-0408

Associate Dean for Undergraduate Studies: Renée Chow, 366 Wurster Hall, rychow@berkeley.edu

CED Career Services

The CED Career Services Center (CSC) offers personalized career counseling, a yearly CED Career Fair, and a wide variety of professional-development workshops on topics such as licensure, internships, and applying for graduate school. To schedule an appointment with the Career Counselor or for more information on CED CSC, please click here (<http://ced.berkeley.edu/ced/students/career>) .

Advising Hours

Fall/Spring: Monday-Friday, 10am-12pm (office opens at 9:00 am) & 1:00pm-4:00pm

Summer: Monday-Friday, 10:00am-12:00pm & 1:00pm-3:00pm

Address

Office of Undergraduate Advising
College of Environmental Design
250 Wurster Hall #1800
University of California
Berkeley, CA 94720-1800
510-642-4943

Office of Undergraduate Advising (<http://ced.berkeley.edu/ced/students/undergraduate-advising>)

- Newly-Admitted Students (<http://ced.berkeley.edu/ced/students/undergraduate-advising/newly-admitted-students>)
- Current Students (<http://ced.berkeley.edu/ced/students/undergraduate-advising/continuing-students>)
- Graduation and Commencement (<http://ced.berkeley.edu/ced/students/undergraduate-advising/graduation-commencement>)
- Services and Contract (<http://ced.berkeley.edu/ced/students/undergraduate-advising/services-contract>)
- Articulation (<http://ced.berkeley.edu/ced/students/undergraduate-advising/articulation>)
- Policies and Resources (<http://ced.berkeley.edu/ced/students/undergraduate-advising/policies-resources>)
- Forms and Documents (<http://ced.berkeley.edu/ced/students/undergraduate-advising/forms-documents>)

Mission

The College of Environmental Design (CED) Office of Undergraduate Advising helps students graduate in a timely way with a meaningful educational experience at Berkeley. In alignment with the College's Vision and Principles, the Office collaborates with CED faculty, deans, and student service units across campus toward the common objective of supporting students as they achieve their educational and career goals.

The CED Office of Undergraduate Advising seeks to accomplish the following:

- Attract a highly-motivated, diverse pool of applicants
- Connect students with resources that match their goals and aspirations
- Support the development and transformation of undergraduates as they become educated, active and socially just citizens of the world
- Prepare graduates who are uniquely qualified and highly sought after in their field of choice.

Advising Values

Student Success. Above all, CED dedicates itself to maximizing student potential and to helping students succeed in their University experiences. CED encourages students to explore their minds and their hearts, challenge them to do their best work, and help them realize their talents and passions and achieve their goals.

Equity & Inclusion. CED is committed to creating an inclusive environment in which any individual or group can be and feel welcomed, respected, supported and valued. The Office of Undergraduate Advising aspires to provide fair treatment, access, opportunity, and advancement for all students and to identify and eliminate barriers that prevent the full participation of all.

Health & Well-Being. Collaboration with campus partners keeps the CED community healthy by helping students balance the physical, intellectual, emotional, social, occupational, spiritual and environmental aspects of life.

Advising Excellence. In all that it does, CED strives to deliver personalized advising services of the highest quality by seeking to continuously educate itself on developments in the field and to evaluate, improve, and streamline services to support students in obtaining the best education and experience possible.

Student Groups and Organizations

The College provides opportunities for students to be involved in student chapters of professional organizations, such as the American Institute of Architects (AIAS), the American Society of Landscape Architects (ASLA), as well as other student groups like the Chican@/Latin@ Architecture Student Association (CASA), Global Architecture Brigades, and more. For information regarding student groups, please see the Getting Involved page of the CED website (<http://ced.berkeley.edu/ced/students/undergraduate-advising/getting-involved/#orgs>) .

Study Abroad

The College of Environmental Design (CED) encourages all undergraduates in the college to study abroad. Whether students are interested in fulfilling general education requirements, taking courses related to their major/career, or simply living and studying in a country that is of interest to them , Berkeley Study Abroad will work with students to make it happen. For information about Study Abroad programs, please see the Berkeley Study Abroad website (<http://studyabroad.berkeley.edu>) .

CED Career Services

The CED Career Services Center (CSC) offers personalized career counseling, a yearly CED Career Fair, and a wide variety of professional-development workshops on topics such as licensure, internships, and

applying for graduate school. For further information, please see the CED Career Services website (<http://ced.berkeley.edu/ced/students/career>) .

Prizes and Awards

CED offers a number of annual prizes, awards, scholarships, fellowships, and grants to its currently enrolled students. Some of these prizes and awards are college-wide, and some are geared toward students in specific majors. For general information regarding CED prizes and awards, including application instructions and a deadline calendar, please click here (<http://ced.berkeley.edu/ced/students/prizes>) .

CED Events and Exhibits Calendar

CED and Wurster Hall is home to a variety of events, lectures, and exhibitions that welcome professors, professionals, and friends to the college to discuss and celebrate the community and professions. Through events and media CED is constantly creating ways to keep the college connected and up-to-date. To view this calendar, please click here (<http://ced.berkeley.edu/events-media/events>) .

CED on Facebook (<https://www.facebook.com/groups/59611725522>)

CED on Twitter (<https://twitter.com/CEDNews>)

Cal Design Lab

The Cal Design Lab at Wurster Hall is an experimental studio space to promote hands-on, interdisciplinary design activities. Faculty and students from UC Berkeley's many schools and departments can come together at the Cal Design Lab to work on critical design challenges. The goal of the lab is to be a nexus for design research and practice, and to facilitate discourse that transcends different design disciplines. For further information, please see the Cal Design Lab's website (<http://ced.berkeley.edu/research/cal-design-lab>) .

CED Lecture Series

The departments of Architecture, City and Regional Planning, and Landscape Architecture and Environmental Planning each sponsor lecture series, which offers students the opportunity to hear internationally-acclaimed speakers. These speakers often also participate in classes and seminars as part of their visit to campus. For a schedule of speakers and events in these lecture series, please see the CED website (<http://ced.berkeley.edu/events-media/lecture-series>) .

CED Mentorship Program

Mentors are an invaluable resource for current students, and one of the strengths of the College of Environmental Design is its strategic partnership with practicing professionals, many of whom are CED graduates. The CED Mentorship Program (<http://www.ced.berkeley.edu/mentorship/login.php>) offers students opportunities to develop a better understanding of the various professions in the fields of design and planning through the guidance and insight of knowledgeable alumni.

Research Opportunities, Internships, Public Service, and Volunteer Opportunities

Check out the CED Office of Undergraduate Advising website (<http://ced.berkeley.edu/ced/students/undergraduate-advising>) for additional opportunities.

Landscape Architecture

LD ARCH 1 Drawing a Green Future: Fundamentals of Visual Representation and Creativity 4 Units

This introductory studio course is open to all undergraduate students in the University, who want to investigate the process of drawing as a method to learn how to perceive, observe and represent the environment. This studio will encourage visual thinking as a formative tool for problem solving that provides a means to envision a sustainable future. The focus will be on the critical coordination between hand, mind and idea.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 6 hours of studio per week

Summer: 8 weeks - 4 hours of lecture and 12 hours of studio per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructor: Sullivan

LD ARCH 12 Environmental Science for Sustainable Development 4 Units

The scientific basis of sustainability, explored through study of energy, water, food, natural resources, and built environment. Physical/ecological processes and systems, and human impacts from the global scale to local energy/resource use. Energy and water audits, opportunities to increase sustainability of processes/practices. Discussion/lab section involves field data collection/analysis (e.g., habitat characteristics and macroinvertebrate communities in local streams, measurement of atmospheric particulate matter concentrations, measurement of water savings from updated irrigation technologies) and a final, integrative sustainability assessment project.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Summer: 8 weeks - 6 hours of lecture and 4 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

LD ARCH 24 Freshman Seminars 1 Unit

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

Rules & Requirements

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

Hours & Format

Fall and/or spring: 15 weeks - 1 hour of seminar per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

LD ARCH 39A Freshman/Sophomore Seminar 2 - 4 Units

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

Rules & Requirements

Prerequisites: Priority given to freshmen and sophomores

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam required.

LD ARCH 84 Sophomore Seminar 1 or 2 Units

Sophomore seminars are small interactive courses offered by faculty members in departments all across the campus. Sophomore seminars offer opportunity for close, regular intellectual contact between faculty members and students in the crucial second year. The topics vary from department to department and semester to semester. Enrollment limited to 15 sophomores.

Rules & Requirements

Prerequisites: At discretion of instructor

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

Hours & Format**Fall and/or spring:**

5 weeks - 3-6 hours of seminar per week

10 weeks - 1.5-3 hours of seminar per week

15 weeks - 1-2 hours of seminar per week

Summer:

6 weeks - 2.5-5 hours of seminar per week

8 weeks - 1.5-3.5 hours of seminar and 2-4 hours of seminar per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: The grading option will be decided by the instructor when the class is offered. Final exam required.

LD ARCH 98 Directed Group Study for Freshmen and Sophomores 1 - 4 Units

Supervised group studies of various topics relevant to department that are not covered in depth by other courses. Topics may be initiated by students. Open to students in good standing who, in consultation with a faculty sponsor, present a proposal with clearly formulated objectives and means of implementation. Intended for exceptional students. Topics vary from semester to semester.

Rules & Requirements

Prerequisites: Department chair must approve written proposal

Credit Restrictions: Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Summer:

6 weeks - 2.5-10 hours of directed group study per week

8 weeks - 1.5-7.5 hours of directed group study per week

10 weeks - 1.5-6 hours of directed group study per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

LD ARCH 101 Fundamentals of Landscape Design 5 Units

This studio introduces students to the programmatic, artistic, and technical aspects of land form and topographic adjustments to accommodate human use. Topics include pedestrian and vehicular circulation, conservation and addition of plant materials, movement of water, recreation use, and creation of views. Sculptural land forms will be emphasized through the use of topographic plans, sections, and contour models.

Rules & Requirements

Prerequisites: Environmental Design 11A-11B or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 6 hours of studio per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

LD ARCH 102 Case Studies in Landscape Design 5 Units

This studio stresses the shaping and coordination of ideas from initial concept to complete design product. A product(s) of intermediate scale and complexity (such as a garden, small park, plaza, or campus courtyard) will be developed in detail including the selection of planting, selection of construction materials, and topographic design. Lecture modules on selected professional topics are integrated into this course.

Rules & Requirements

Prerequisites: 101 or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 6 hours of studio per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Kullmann

LD ARCH 103 Energy, Fantasy, and Form 5 Units

This is an undergraduate studio with a central focus on climate modification for energy conservation. We will research historical precedents in order to develop new garden forms for passive green designs. We will also explore how past cultures integrated metaphysics into their gardens as an adjunct to microclimate and habitat design. The contemporary landscape should be a balanced interweaving of proportion, function, comfort, energy conservation, and enlightenment. Additionally, we will study the choreography of space and investigate how to animate the landscape through the creative interpretation of text and film. Many new and exciting opportunities lie ahead for the creation of garden forms that not only conserve energy, but are also works of art and places of spiritual renewal.

Rules & Requirements

Prerequisites: 101, 102, Environmental Design 11A-11B, (ARCH 100A or 100B for Architecture students) or by consent of instructor

Repeat rules: Course may be repeated for a maximum of 8 units.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 6 hours of studio per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Sullivan

LD ARCH 110 Ecological Analysis 3 Units

Analysis of environmental factors, ecosystem functions, and ecosystem dynamics, as related to decision-making for landscape planning and design.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: McBride

LD ARCH 110L Ecological Analysis Laboratory 2 Units

Introduction to field techniques for assessment of landscape factors. Factors include topography, geology, climate, soil, hydrology, flora, vegetation, and wildlife.

Rules & Requirements

Prerequisites: Landscape Architecture 110 (may be taken concurrently)

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: McBride

LD ARCH 111 Plants in Design 3 Units

Through lecture, research, and studio assignments, this course introduces the use of plants as design elements in the landscape, from the urban scale to the site-specific scale, focusing on the public open space. By analyzing historic, contemporary, and Bay Area examples, the course examines the spatial, visual, and sensory qualities of vegetation, as well as the interplay with ecological functions and engineering uses of plants.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

LD ARCH 112 Landscape Plants: Identification and Use 4 Units

This course is an introduction to the identification and recognition, as well as design applications and uses, of plants in the landscape. Through lectures, assignments, and fieldwork, the course provides class participants with an appreciation of the importance of vertical vegetation as a design element. Students will be introduced to a variety of built projects and plants commonly used in Bay Area landscapes.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 6 hours of fieldwork per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

LD ARCH 120 Topographic Form and Design Technology 3 Units

Technical, graphic and computational exercises, and studio problems in topographic site design and the shaping of the site for surface drainage.

Rules & Requirements

Prerequisites: 102 or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of studio per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Jewell

LD ARCH 121 Design in Detail: Introduction to Landscape Materials and Construction 4 Units

This course introduces the visual and physical characteristics of landscape construction materials including, but not limited to, stone, brick, concrete, metal, asphalt, and wood. Additionally, lectures cover the production and availability of these materials, any existing evaluations on their sustainability, and their potential impact on the immediate environment. Students also learn to utilize standard sources of information on building materials and the terminology typically utilized when choosing and specifying construction materials. They become familiar with dimensional standards for landscape structures, including pavements, stairs, furnishings, retaining walls, freestanding walls, fences, decks, and small overhead structures.

Rules & Requirements

Prerequisites: 101, Architecture 100A, or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1.5 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Jewell

LD ARCH 122 Environmental Science for Sustainable Development 4 Units

Topics include the scientific basis of sustainability, explored through study of energy, water, food, natural resources, and the built environment; physical/ecological processes and systems, and human impacts from the global scale to local energy/resource use; and energy and water audits of the Berkeley campus, opportunities to increase sustainability of processes/practices. Discussion/lab section involves data collection/analysis (e.g., Strawberry Creek, atmospheric particulates) and integrative sustainability assessment projects.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

LD ARCH 130 Sustainable Landscapes and Cities 4 Units

This course is an introduction to issues of sustainability in the designed landscape and in our cities. It includes environmental history as well as contemporary social, environmental and political issues surrounding sustainable design and activism. The course stresses motives and values expressed through environmental design at various scales – from neighborhood to global and examines problems affecting healthy environments and their solutions. Students study the need for protection and restoration of healthy ecological systems within the design of cities and landscapes and discuss ways to enable these systems to thrive. Readings and discussions focus on means to evaluate, create and advocate for healthy, sustainable environments.

Objectives & Outcomes

Course Objectives: This course is an important elective to majors in the College of Natural Resources and CED students who have Architecture and City Planning majors. A new CED major, Sustainable Environmental Design (SED), has increased the number of students who require this class. It also fulfills the Social and Behavioral breadth requirement. Therefore, it is clear that the course enrollment should be increased to accommodate students from both inside and outside the CED. This course offers students the opportunity to examine a specific range of sustainable design interventions that attempt to address primary problems related to climate change, the need for healthy watersheds, adequate food security and socially resilient communities in the face of rapid environmental change. Students will see the complexity of various aspects and approaches required of sustainable design and occasionally competing goals of a project.

Student Learning Outcomes: On the required field trip to San Francisco, students will be able to see and critique the efficacy of policy; of existing and emerging landscape design technology; to observe interventions intended to assist existing natural systems in urban environments and promote their viability; to see the value of community building to help establish resilient neighborhoods; to become verbally articulate about these issues. Students will learn about and discuss the inter-connectedness of natural systems overlapped by human habitation. They will learn about design that can facilitate positive social systems and how the combination of ecological and social communities can present answers to some of the pressing environmental problems we face. Students will learn how various design strategies involve land preservation, watershed protection and restoration; local food production networks; resilient neighborhood design through community participation in open space design; pedestrian and bicycle friendly streets, urban forestry; reducing the waste stream.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Summer: 8 weeks - 6 hours of lecture and 2 hours of discussion per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Stryker

LD ARCH 131 Implementation of Sustainable Landscape Design 1 Unit
Course will explore Bay Area built landscape projects intended to promote sustainable landscapes and urban environments. Site visits plus lectures/discussion. Instructor to present specific problems and how policy, planning, and design can address them. Site visits allow students to examine issues and solutions for sustainable environments. Class meetings include discussion with designers and policy makers as well as readings.

Rules & Requirements

Prerequisites: Minimum of one life science course advised

Hours & Format

Fall and/or spring: 15 weeks - 4 hours of fieldwork per week

Summer: 8 weeks - 4 hours of fieldwork per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Stryker

LD ARCH 132 Computer Applications in Environmental Design 4 Units
This course introduces students to the use of computers in Landscape Architecture and Environmental Design. It develops applied computing skills in Web publishing, Computer Aided Design (CAD), image scanning, and Geographic Information Systems (GIS). CAD is emphasized in the first half of the semester and includes: 2D and 3D modeling, object rendering, integration of images, fly-through movies, and solar studies. The rest of the semester expands spatial design, graphics, and virtual modeling by integrating support information from geographic information systems (GIS), digital ortho-photos (DOP/DOQ), and global positioning systems (GPS). Lecture time is spent discussing problems and solutions of data: acquisition, accuracy, representation, modeling, and communication in landscape design. The lab/studio seeks innovative application of technology to medium- to large-scale landscape design problems. The focus of the lab/studio varies from semester to semester, but typical topics include garden design, park design, neighborhood design, open space design, and others.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 3.5 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Radke

LD ARCH 132A Computer Applications for Environmental Design 2 Units
This course consists of both a lecture and a "hands-on" laboratory session each week. The lecture is structured as a seminar in which the instructor and students discuss problems and CAD solutions in landscape design. The laboratory provides a practical introduction to some tools for spatial data manipulation in CAD.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Radke

LD ARCH 134A Drawing Workshop 1 3 Units

This studio will elaborate on a number of studio themes while introducing the students to a variety of graphic mediums and drawing techniques. Measured drawing procedures (including orthographic projections) will be augmented by figure-ground principles and themes of contrast, color, chiaroscuro, and compositions. On-site and visits to galleries and museums will complement the studio sessions.

Rules & Requirements

Prerequisites: Environmental Design 11A-11B or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 3 hours of studio per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Hood

LD ARCH 134B Drawing Workshop II 3 Units

This course introduces students to digital tools relevant to the discipline of landscape architecture. The course encompasses a series of lectures, lab exercises, and projects designed to equip students with a solid and expandable computing skill base relevant to the learning and practice of landscape architecture. Beyond technical competency, particular emphasis is placed on empowering students to move freely and creatively between software programs as an effective way of representing landscape.

Rules & Requirements

Prerequisites: Environmental Design 11A-11B or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Kullmann

LD ARCH 135 The Art of Landscape Drawing 3 Units

This course develops freehand drawing as an integral part of the creative process and as an expressive design tool. A broad range of exercises is employed to help students progressively gain creativity, skill, and confidence in their drawing. Various media such as ink, colored pencils, and watercolor are explored as a method to design innovative landscapes. A variety of presentation techniques will be investigated for communicating landscape design. In addition to field sketching, there will be excursions to art galleries, artists' studios, and other creative environments. Through the integration of drawing with intuition and imagination, students will be able to bring their visions to reality.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 4 hours of studio per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Sullivan

LD ARCH 136 Advanced Landscape Delineation 3 Units

Imagination is the foundation for creative expression in the landscape. This course encourages exploration and personal expression for the realization of new landscape forms. This laboratory intends to refine drawing compositional skills by fostering imagination, intuition, and creativity. The media explored will be pen and ink, watercolor, collage, and 3-dimensional construction. We will study the human figure through analytical drawings and live models. The realms of moving images, the landscape of the animated cartoon, and the sequential art of the comic will be investigated.

Hours & Format

Fall and/or spring: 15 weeks - 2 hours of lecture and 4 hours of studio per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Sullivan

LD ARCH 138 Analysis of Metropolitan Form 3 Units

The extraordinary cultural diversity of San Francisco Bay Area shapes the everyday experience of most of its residents. We discuss the process of urbanization in the context of history, culture, and natural resources to better understand how the region is expected to accommodate its share of California's growing population, while addressing the human-induced consequences of climate change, and strategies for overcoming social and functional segregation - visions for a sustainable region.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Bosselmann

LD ARCH 138AC The Metropolitan Landscape 3 Units

The extraordinary cultural diversity of San Francisco Bay Area shapes the everyday experience of most of its residents. We discuss the process of urbanization in the context of history, culture, and natural resources to better understand how the region is expected to accommodate its share of California's growing population, while addressing the human-induced consequences of climate change, and strategies for overcoming social and functional segregation--visions for a sustainable region.

Rules & Requirements

Credit Restrictions: Students will receive no credit for Landscape Architecture 138AC after taking Landscape Architecture 138.

Requirements this course satisfies: Satisfies the American Cultures requirement

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

Instructor: Bosselmann

LD ARCH 140 Social and Psychological Factors in Open Space Design 3 Units

User-oriented approach to design. Post-occupancy evaluation as a tool for understanding use of designed open spaces. Design as a communication process. Environmental needs of vulnerable populations--children, elderly, disabled, low-income families. Personal and societal environmental values.

Hours & Format

Fall and/or spring: 15 weeks - 1.5 hours of lecture and 1.5 hours of discussion per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

LD ARCH 141AC The American Landscape: Multicultural Difference and Diversity 3 Units

This course will compare and contrast the nature of African American, American Indian, and European American relationships with the American Landscape. Traditional patterns of land use within each subculture will be explored, and juxtaposed against prevailing theory and ideology. Social patterns of use, perception, attached meaning and sense of place, and the transformation of the environment as the result of social change are some of the topics to be discussed.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Hood

LD ARCH 160 Professional Practice Seminar 3 Units

Survey and analysis of professional practice in landscape architecture focusing on: the context of professional practice--office structure, public, private and non-profit practice, marketing, project management and delivery; the legal parameters of practice--contracts, codes, planning regulations, project approval processes, liability; and economics--budgeting, profits, project development costs, fiscal impacts, and financing.

Rules & Requirements

Prerequisites: 161 or graduate standing

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of seminar per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam not required.

LD ARCH 170 History and Literature of Landscape Architecture 3 Units

This course surveys the history of landscape architecture in four realms: 1) gardens; 2) urban open space, that is, plazas, parks, and recreation systems; 3) urban and suburban design; and 4) regional and environmental planning. The course will review the cultural and social contexts which have shaped and informed landscape architecture practice and aesthetics, as well as the environmental concerns, horticultural practices, and technological innovations of historic landscapes.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Mozingo

LD ARCH C171 The American Designed Landscape Since 1850 3 Units
This course surveys the history of American landscape architecture since 1850 in four realms: 1) urban open spaces--that is squares, plazas, parks, and recreation systems; 2) urban and suburban design; 3) regional and environmental planning; 4) gardens. The course will review the cultural and social contexts which have shaped and informed landscape architecture in the United States since the advent of the public parks movement, as well as, the aesthetic precepts, environmental concerns, horticultural practices, and technological innovations of American landscapes. Students will complete a midterm, final, and a research assignment.

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Mozingo

Also listed as: AMERSTD C171

LD ARCH C177 GIS and Environmental Spatial Data Analysis 4 Units
This course offers an introduction to spatial data analysis. It integrates ArcGIS analysis with spatial statistical analysis for the study of pattern and process applicable to a wide variety of fields. Major topics covered include: spatial sampling, processing data with ARC Info, exploratory GIS analysis, spatial decomposition, spatial point patterns and Ripley's K function, spatial autocorrelation, geostatistics, spatially weighted regression, spatial autoregression, generalized linear models and generalized linear mixed models.

Rules & Requirements

Prerequisites: Requirements are course in GIS and a course in probability and statistics. We invite participation of undergraduates and graduate students from: ESPM, Landscape Architecture & Environmental Planning, City and Regional Planning, IB, Civil Engineering, Energy and Resources Group, Public Health, Earth and Planetary Science, and other campus departments or units with students interested in learning and using spatial analysis for the environment- both natural and built

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 3 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Alternative to final exam.

Instructors: Biging, Radke

Also listed as: ESPM C177

LD ARCH C188 Geographic Information Systems 4 Units
This course introduces the student to the rapidly expanding field of Geographic Information Systems (GIS). It addresses both theory and application and provides the student with a dynamic analytical framework within which temporal and spatial data and information is gathered, integrated, interpreted, and manipulated. It emphasizes a conceptual appreciation of GIS and offers an opportunity to apply some of those concepts to contemporary geographical and planning issues.

Rules & Requirements

Prerequisites: Some computer experience

Hours & Format

Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Letter grade. Final exam required.

Instructor: Radke

Formerly known as: C188X

Also listed as: GEOG C188

LD ARCH 197 Field Study in Landscape Architecture 2 - 3 Units
See departmental information sheet for limitations. Supervised experience relative to specific aspects of landscape architecture. Regular individual meetings with faculty and outside sponsor. Reports required.

Rules & Requirements

Prerequisites: Upper division standing and consent of instructor and sponsor

Repeat rules: Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 2-3 hours of fieldwork per week

Summer:

6 weeks - 5-7.5 hours of fieldwork per week

8 weeks - 3.5-5.5 hours of fieldwork per week

10 weeks - 3-4.5 hours of fieldwork per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

LD ARCH 198 Directed Group Study 1 - 4 Units

Enrollment restrictions apply.

Rules & Requirements

Prerequisites: Consent of instructor

Repeat rules: No more than 4 units allowed each semester. Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of directed group study per week

Summer:

6 weeks - 2.5-10 hours of directed group study per week

8 weeks - 1.5-7.5 hours of directed group study per week

10 weeks - 1.5-6 hours of directed group study per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.

LD ARCH 199 Supervised Independent Study and Research 1 - 4 Units

Enrollment restrictions apply.

Rules & Requirements

Prerequisites: Consent of instructor

Repeat rules: Course may be repeated for credit. Course may be repeated for credit when topic changes.

Hours & Format

Fall and/or spring: 15 weeks - 1-4 hours of independent study per week

Summer:

6 weeks - 2.5-10 hours of independent study per week

8 weeks - 1.5-7.5 hours of independent study per week

10 weeks - 1.5-6 hours of independent study per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

Grading/Final exam status: Offered for pass/not pass grade only. Final exam not required.