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 freshmen, 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/undergraduate/colleges-schools/environmental-design/#choosingamajor) or the CED website (http://ced.berkeley.edu/admissions/undergraduate).

History and Theory of Landscape Architecture and Environmental Design Minor Program
This program introduces students to conceptual issues of landscape architecture. A letter grade of C- or higher in ENV DES 1, LD ARCH 1, or LD ARCH 12 is required to declare the minor. To declare, students must submit the CED Request to Add Minor Form (https://ced.berkeley.edu/students/undergraduate-advising/forms-documents), available on the CED website. Open to all majors at UC Berkeley except Landscape Architecture.

Other Minors 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 Guide (http://guide.berkeley.edu/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. Courses taken to fulfill lower division major requirements may also be used to fulfill Seven-Course Breadth.
3. A minimum grade point average (GPA) of 2.0 must be maintained in upper and lower division courses used to fulfill the major requirements.
4. A minimum overall GPA of 2.0 for all courses taken at UC Berkeley is required for graduation.
5. Courses used to fulfill an upper division major requirement may not simultaneously fulfill a breadth requirement.
6. Up to two upper division courses taken at another institution, including an approved study abroad program, may be applied to the major requirements below (if transferable and approved in advance).

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

Lower Division Major Requirements
Freshman and sophomore year (three courses)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD ARCH 1</td>
<td>Drawing a Green Future: Fundamentals of Visual Representation and Creativity</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1A</td>
<td>General Chemistry</td>
<td></td>
</tr>
<tr>
<td>EPS 3</td>
<td>The Water Planet</td>
<td>[3]</td>
</tr>
<tr>
<td>EPS 7</td>
<td>Introduction to Climate Change</td>
<td>[3]</td>
</tr>
<tr>
<td>EPS 10</td>
<td>Earth’s Greatest Volcanic Eruptions</td>
<td>[3]</td>
</tr>
<tr>
<td>EPS 20</td>
<td>Earthquakes in Your Backyard</td>
<td>[3]</td>
</tr>
<tr>
<td>EPS C20</td>
<td>Earthquakes in Your Backyard</td>
<td>[3]</td>
</tr>
<tr>
<td>EPS 50</td>
<td>The Planet Earth</td>
<td>[4]</td>
</tr>
<tr>
<td>EPS 80</td>
<td>Environmental Earth Sciences</td>
<td>[3]</td>
</tr>
<tr>
<td>EPS 81</td>
<td>Atmospheres</td>
<td>[3]</td>
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<tr>
<td>EPS C82</td>
<td>Oceans</td>
<td>[3]</td>
</tr>
<tr>
<td>EPS N82</td>
<td>Introduction to Oceans</td>
<td>[3]</td>
</tr>
<tr>
<td>ESPM 15</td>
<td>Introduction to Environmental Sciences</td>
<td>[3]</td>
</tr>
<tr>
<td>GEOG 40</td>
<td>Introduction to Earth System Science</td>
<td>[4]</td>
</tr>
<tr>
<td>INTEGBI C82</td>
<td>Oceans</td>
<td>[3]</td>
</tr>
<tr>
<td>L &amp; S C70Y</td>
<td>Earthquakes in Your Backyard</td>
<td>[3]</td>
</tr>
<tr>
<td>PHYSICS 7A</td>
<td>Physics for Scientists and Engineers</td>
<td>[4]</td>
</tr>
<tr>
<td>PHYSICS 8A</td>
<td>Introductory Physics</td>
<td>[4]</td>
</tr>
<tr>
<td>PHYSICS C10</td>
<td>Descriptive Introduction to Physics</td>
<td>[3]</td>
</tr>
</tbody>
</table>
General Guidelines

1. All minors must be declared no later than one semester before a student’s Expected Graduation Term (EGT).

2. A letter grade of C- or higher in ENV DES 1, LD ARCH 1, or LD ARCH 12 is required to declare the minor. To declare, submit the CED Request to Add Minor Form (https://forms.gle/hMQEi6CvRH4oWyN17), available on the CED website.

3. Each course used to fulfill minor requirements must be completed with a letter grade of C- or above.

4. Students must earn a 2.0 GPA in the upper division requirements for the minor.

5. Any course used in fulfillment of minor requirements may also be used to fulfill major and upper division CED non-major requirements.

6. Courses used to fulfill a breadth requirement may also be used to satisfy minor requirements.

7. Students may apply the non-CED version of a CED cross-listed course towards the minor.

8. Students may use up to two courses taken abroad to fulfill upper division minor requirements, with faculty approval of the individual courses.

History and Theory of Landscape Architecture and Environmental Planning Minor Requirements

Lower Division (Choose one from list)

- ENV DES 1 Introduction to Environmental Design 3
- LD ARCH 1 Drawing a Green Future: Fundamentals of Visual Representation and Creativity 4
- LD ARCH 12 Environmental Science for Sustainable Development 4

Upper Division (Choose five from list)

- LD ARCH 110 Ecological Analysis 3
- LD ARCH 111 Plants in Design 3
- LD ARCH 122 Hydrology for Planners 4
- LD ARCH 130 Sustainable Landscapes and Cities 4
- LD ARCH 140 Social and Psychological Factors in Open Space Design 3
- LD ARCH 154 Special Topics in Landscape Architecture and Environmental Planning (Must be taken for at least 2 units) 2-3
- LD ARCH 170 History and Literature of Landscape Architecture 3
- LD ARCH/AMERSTD C171 The American Designed Landscape Since 1850 3
- LD ARCH C188 Geographic Information Systems 4
- LD ARCH 189 Course Not Available 3

For College Requirements, please refer to the College of Environmental Design (http://guide.berkeley.edu/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, or anything else.

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

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Fall Units</th>
<th>Spring Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV DES 1</td>
<td>Introduction to Environmental Design</td>
<td>3</td>
<td>4</td>
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<tr>
<td>LD ARCH 1</td>
<td>Drawing a Green Future: Fundamentals of Visual Representation and Creativity</td>
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<tr>
<td>LD ARCH 12</td>
<td>Environmental Science for Sustainable Development</td>
<td></td>
<td></td>
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<tr>
<td>LD ARCH 110</td>
<td>Ecological Analysis</td>
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<td>Plants in Design</td>
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<td>LD ARCH 122</td>
<td>Hydrology for Planners</td>
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<tr>
<td>LD ARCH 130</td>
<td>Sustainable Landscapes and Cities</td>
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<tr>
<td>LD ARCH 140</td>
<td>Social and Psychological Factors in Open Space Design</td>
<td></td>
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<tr>
<td>LD ARCH 154</td>
<td>Special Topics in Landscape Architecture and Environmental Planning</td>
<td>2-3</td>
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<tr>
<td>LD ARCH 170</td>
<td>History and Literature of Landscape Architecture</td>
<td>3</td>
<td></td>
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<tr>
<td>LD ARCH/AMERSTD C171</td>
<td>The American Designed Landscape Since 1850</td>
<td>3</td>
<td></td>
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<tr>
<td>LD ARCH C188</td>
<td>Geographic Information Systems</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>LD ARCH 189</td>
<td>Course Not Available</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Students who have a strong interest in an area of study outside their major often decide to complete a minor program. When completing their final requirements for the minor, students must submit the CED Minor Completion Form (https://forms.gle/hMQEi6CvRH4oWyN17), available on the CED website.
Reading & Composition A
4-6 ENV DES 4A, 4B, or 4C (Must complete 2 of 3 to graduate) 3

Bio Sci for Major (fills Breadth #1, BS)
3-4 Phys Sci for Major (fills Breadth #2, PS) 2-4

Elective (if needed to reach 12 units)
2 Breadth #3 3-4

<table>
<thead>
<tr>
<th>Fall</th>
<th>Units</th>
<th>Spring</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENV DES 4A, 4B, or 4C (Must complete 2 of 3 to graduate)</td>
<td>3</td>
<td>LD ARCH 1</td>
<td>4</td>
</tr>
</tbody>
</table>

Breadth #4
3-4 ENV DES 4A, 4B, or 4C (Must complete 2 of 3 to graduate) 3

Breadth #5
3-4 Breadth #6 3-4

Elective (if needed to reach 12 units)
3 Breadth #7 3-4

<table>
<thead>
<tr>
<th>Fall</th>
<th>Units</th>
<th>Spring</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD ARCH 101</td>
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<td>LD ARCH 102</td>
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<td>LD ARCH 110</td>
<td>3</td>
<td>LD ARCH 170</td>
<td>3</td>
</tr>
<tr>
<td>LD ARCH 110L</td>
<td>2</td>
<td>LD ARCH 112</td>
<td>4</td>
</tr>
<tr>
<td>LD ARCH 133</td>
<td>3</td>
<td>CED Upper Div Non-Major #1</td>
<td>2-4</td>
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<tr>
<td>LD ARCH 134B</td>
<td>Curriculum change pending; see major adviser</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall</th>
<th>Units</th>
<th>Spring</th>
<th>Units</th>
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<tbody>
<tr>
<td>LD ARCH 103</td>
<td>5</td>
<td>LD ARCH 121</td>
<td>4</td>
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<tr>
<td>LD ARCH 120</td>
<td>3</td>
<td>LD ARCH 135</td>
<td>3</td>
</tr>
<tr>
<td>CED Upper Div Non-Major #2</td>
<td>2-4</td>
<td>CED Upper Div Non-Major #3</td>
<td>2-4</td>
</tr>
<tr>
<td>American Cultures (or elective, if needed to reach 12 units)</td>
<td>2-4</td>
<td>LD ARCH 160 (or elective, if needed to reach 12 units)</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units: 103-121

Students must complete 120 units to graduate.

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: Isela Pena-Rager
250 Wurster Hall
isela.penarager@berkeley.edu
510-642-4944

Landscape Architecture Major Adviser: Omar Ramirez
250 Wurster Hall
oramirez@berkeley.edu
510-642-0926

Sustainable Environmental Design Major Adviser: Heather Grothjan
250 Wurster Hall
heather.grothjan@berkeley.edu
510-642-0928

Urban Studies Major Adviser: Omar Ramirez
250 Wurster Hall
oramirez@berkeley.edu
510-642-0926

College Evaluator: Heather Grothjan
250 Wurster Hall
heather.grothjan@berkeley.edu
510-642-0928

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

Associate Dean for Undergraduate Studies: C. Greig Crysler
250 Wurster Hall
cgreigc@gmail.com (cgreygc@berkeley.edu)

Advising Hours
Fall/spring: Monday through Friday, 10 to noon (office opens at 9 a.m.) and 1 to 4 p.m.
Summer: Monday through Friday, 10 to noon and 1 to 3 p.m.

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

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).
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 Chicano/Latino 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)
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).
WursterLife

WursterLife (https://ced.berkeley.edu/ced/alumni-friends/wursterlife) is a closed-network platform that enables CED students and alumni from across the globe to connect with classmates, find alumni by practice area, geographic region, affinity group, or shared interest, share professional updates, news, photos, events, and jobs, enhance your career through your alumni connections, and find ways to stay engaged with the UC Berkeley College of Environmental Design.

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

Expand all course descriptions [+ ]Collapse all course descriptions [- ]

LD ARCH 1 Drawing a Green Future: Fundamentals of Visual Representation and Creativity 4 Units
Terms offered: Summer 2019 8 Week Session, Spring 2019, Summer 2018 8 Week Session
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.

Drawing a Green Future: Fundamentals of Visual Representation and Creativity: Read More [+]

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 6 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

Drawing a Green Future: Fundamentals of Visual Representation and Creativity: Read Less [- ]

LD ARCH 12 Environmental Science for Sustainable Development 4 Units
Terms offered: Fall 2019, Fall 2018, Summer 2018 8 Week Session
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.

Environmental Science for Sustainable Development: Read More [+]

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 2 hours of laboratory per week

Additional Details

Subject/Course Level: Landscape Architecture/Undergraduate

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

Environmental Science for Sustainable Development: Read Less [-]
**LD ARCH 98 Directed Group Study for Freshmen and Sophomores 1 - 4 Units**

Terms offered: Fall 2015, Spring 2013, Spring 2012

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 without restriction.

**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.

Directed Group Study for Freshmen and Sophomores: Read More [+]

LD ARCH 102 Case Studies in Landscape Design 5 Units

Terms offered: Spring 2019, Spring 2018, Spring 2017

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

Case Studies in Landscape Design: Read Less [-]

**LD ARCH 101 Fundamentals of Landscape Design 5 Units**

Terms offered: Fall 2019, Fall 2018, Fall 2017

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.

Fundamentals of Landscape Design: Read Less [-]
LD ARCH 103 Energy, Fantasy, and Form 5 Units
Terms offered: Fall 2019, Fall 2018, Fall 2017
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.
Energy, Fantasy, and Form: Read More [+]
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 credit up to a total 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
Energy, Fantasy, and Form: Read Less [-]

LD ARCH 110L Ecological Analysis Laboratory 2 Units
Terms offered: Fall 2019, Fall 2018, Fall 2017
Introduction to field techniques for assessment of landscape factors. Factors include topography, geology, climate, soil, hydrology, flora, vegetation, and wildlife.
Ecological Analysis Laboratory: Read More [+]
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
Ecological Analysis Laboratory: Read Less [-]

LD ARCH 111 Plants in Design 3 Units
Terms offered: Fall 2019, Fall 2018, Fall 2017
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.
Plants in Design: Read More [+]
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
Plants in Design: Read Less [-]
LD ARCH 112 Landscape Plants: Identification and Use 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
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. Alternative to final exam.

LD ARCH 120 Topographic Form and Design Technology 3 Units
Terms offered: Fall 2019, Fall 2018, Fall 2017
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
Terms offered: Spring 2019, Spring 2018, Spring 2017
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.

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: Kondolf

LD ARCH 122 Hydrology for Planners 4 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
This course presents an overview of relevant hydrologic, hydraulic, and geomorphic processes, to provide the planner and ecologist with insight to incorporate these processes into the planning process and coordinate with specialists in the field of hydrology. Relevant government regulations and policies are also reviewed. The course is not intended to duplicate more specialized courses offered in such fields as engineering hydrology, coastal engineering, or geology, but rather to provide an integrated understanding. The course takes a process- and field-based approach to hydrology, and emphasizes interdisciplinary perspectives.

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. Alternate method of final assessment during regularly scheduled final exam group (e.g., presentation, final project, etc.).
Instructor: Kondolf
LD ARCH 130 Sustainable Landscapes and Cities 4 Units
Terms offered: Summer 2019 8 Week Session, Spring 2019, Summer 2018 8 Week Session
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.
Sustainable Landscapes and Cities: Read More [+]

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.

LD ARCH 133 Drawn from the Field 3 Units
Terms offered: Fall 2019
This course will provide students an opportunity to analyze and interpret the iconic built landscapes of the Bay Area through direct observation and field sketching. The vision for the course is influenced by the global popularity of the Urban Sketchers movement, a phenomenon based on personal engagement with one’s environment. The annotated sketchbook will be used as the primary tool for investigation and documentation of core fundamental principles and elements of landscape and urban design. Lectures and hands-on demonstrations will give students the tools to respond to and construct meaning from their on-site observations.
Drawn from the Field: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 1 hour of lecture and 2 hours of fieldwork per week

Additional Details
Subject/Course Level: Landscape Architecture/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Sullivan

LD ARCH 134A Drawing Workshop 1 3 Units
Terms offered: Fall 2019
This studio will elaborate on a number of studio themes while introducing 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.
Drawing Workshop 1: Read More [+]

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

Drawing Workshop 1: Read Less [-]
LD ARCH 134B Drawing Workshop II 3 Units
Terms offered: Fall 2019, Fall 2018, Fall 2017
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.

Drawing Workshop II: Read More [+]

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
Terms offered: Spring 2019, Fall 2017, Fall 2016
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.

The Art of Landscape Drawing: Read More [+]

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 140 Social and Psychological Factors in Open Space Design 3 Units
Terms offered: Fall 2019, Fall 2018, Spring 2018
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.

Social and Psychological Factors in Open Space Design: Read More [+]

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.
Instructor: Sullivan

LD ARCH 154 Special Topics in Landscape Architecture and Environmental Planning 1 - 3 Units
Terms offered: Spring 2019, Spring 2018, Fall 2017
Designed to be a forum for presentation of student research, discussions with faculty researchers and practitioners, and examination of topical issues in landscape architecture and environmental planning. Topics will be announced at the beginning of each semester.

Special Topics in Landscape Architecture and Environmental Planning: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1-3 hours of seminar per week

Additional Details
Subject/Course Level: Landscape Architecture/Undergraduate
Grading/Final exam status: Letter grade. Final exam required.
Instructor: Sullivan

The Art of Landscape Drawing: Read Less [-]
LD ARCH 160 Professional Practice Seminar
3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
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.
Professional Practice Seminar: Read More [+]

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
Terms offered: Spring 2019, Spring 2018, Spring 2017
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.
History and Literature of Landscape Architecture: Read More [+]

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 C171 The American Designed Landscape Since 1850 3 Units
Terms offered: Fall 2019, Fall 2018, Fall 2017, Fall 2016
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.
The American Designed Landscape Since 1850: Read More [+]

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

The American Designed Landscape Since 1850: Read Less [-]
LD ARCH C177 GIS and Environmental Spatial Data Analysis 4 Units
Terms offered: Spring 2017, Spring 2016, Spring 2015
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

GIS and Environmental Spatial Data Analysis: Read Less [-]

LD ARCH 187 Representation as Research: Contemporary Topics in Landscape Visualization 3 Units
Terms offered: Not yet offered
Representations typically demonstrate two different forms of landscape analysis—empirical data and personal perception/aesthetics—but landscape provides opportunities for their overlaps in order to advance and synthesize robust research. Through lectures, technical tutorials, and reading discussions, this course will profile contemporary landscape research practices and representational techniques. We will use visualization to advance landscape research, theory, and site analysis, focusing specifically on methods that tackle issues of temporality and ephemerality. We will generate original media that communicates spatial, ecological, and cultural complexities.

Rules & Requirements
Prerequisites: Working knowledge of Rhino, AutoCAD, Adobe Creative Suite (Illustrator, Photoshop, InDesign)

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of laboratory and 1 hour of lecture per week

Additional Details
Subject/Course Level: Landscape Architecture/Undergraduate
Grading/Final exam status: Letter grade. Alternative to final exam.
Instructor: Cooper
Formerly known as: Landscape Architecture 189

Representation as Research: Contemporary Topics in Landscape Visualization: Read Less [-]
LD ARCH C188 Geographic Information Systems 4 Units
Terms offered: Fall 2019, Fall 2018, Fall 2017
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.
Geographic Information Systems: Read More [+]

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
Geographic Information Systems: Read Less [-]

LD ARCH 197 Field Study in Landscape Architecture 2 - 3 Units
Terms offered: Spring 2019, Fall 2016, Fall 2015
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.
Field Study in Landscape Architecture: Read More [+]

Rules & Requirements
Prerequisites: Upper division standing and consent of instructor and sponsor
Repeat rules: Course may be repeated for credit without restriction.

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.
Field Study in Landscape Architecture: Read Less [-]

LD ARCH 198 Directed Group Study 1 - 4 Units
Terms offered: Spring 2019, Fall 2018, Spring 2017
Enrollment restrictions apply.
Directed Group Study: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

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.
Directed Group Study: Read Less [-]

LD ARCH 199 Supervised Independent Study and Research 1 - 4 Units
Terms offered: Spring 2016, Fall 2015, Spring 2013
Enrollment restrictions apply.
Supervised Independent Study and Research: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

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.
Supervised Independent Study and Research: Read Less [-]