Landscape Architecture and Environmental Planning

The Department of Landscape Architecture and Environmental Planning offers a professional graduate degree, the Master of Landscape Architecture (MLA), and a Doctor of Philosophy (PhD) in Landscape Architecture and Environmental Planning.

Master of Landscape Architecture (MLA)
The Master of Landscape Architecture degree is a professional degree accredited by the Landscape Architecture Accreditation Board, part of the American Society of Landscape Architects and qualifies graduates for licensure in California and elsewhere. The program offers advanced education in landscape architecture and environmental planning from the scale of the site to the region to the ecosystem. The MLA requires a set of core courses for all students emphasizing cross-scaler analysis, representation, design and planning. This core pedagogy forms the foundation for extended coursework in specialized aspects of landscape design and environmental planning.

Doctor of Philosophy (PhD) in Landscape Architecture and Environmental Planning
The Doctor of Philosophy encompasses advanced research in the field of landscape architecture and environmental planning. It requires the development of original research that contribute to the theories, methods, and knowledge in the field. The program particularly emphasizes the development of research which applies social and ecological science methods to illuminate the complexities of decision-making regarding human alteration of the landscape and its outcomes for the local and global environment. The PhD degree in Landscape Architecture and Environmental Planning is appropriate for those seeking careers in academia, research institutions, and leadership roles in non-profits, government, and professional consultation.

Admission to the University
Minimum Requirements for Admission
The following minimum requirements apply to all graduate programs and will be verified by the Graduate Division:

1. A bachelor’s degree or recognized equivalent from an accredited institution;
2. A grade point average of B or better (3.0);
3. If the applicant comes from a country or political entity (e.g., Quebec) where English is not the official language, adequate proficiency in English to do graduate work, as evidenced by a TOEFL score of at least 90 on the iBT test, 570 on the paper-and-pencil test, or an IELTS Band score of at least 7 on a 9-point scale (note that individual programs may set higher levels for any of these); and
4. Sufficient undergraduate training to do graduate work in the given field.

Applicants Who Already Hold a Graduate Degree
The Graduate Council views academic degrees not as vocational training certificates, but as evidence of broad training in research methods, independent study, and articulation of learning. Therefore, applicants who already have academic graduate degrees should be able to pursue new subject matter at an advanced level without need to enroll in a related or similar graduate program.

Programs may consider students for an additional academic master’s or professional master’s degree only if the additional degree is in a distinctly different field.

Applicants admitted to a doctoral program that requires a master’s degree to be earned at Berkeley as a prerequisite (even though the applicant already has a master’s degree from another institution in the same or a closely allied field of study) will be permitted to undertake the second master’s degree, despite the overlap in field.

The Graduate Division will admit students for a second doctoral degree only if they meet the following guidelines:

1. Applicants with doctoral degrees may be admitted for an additional doctoral degree only if that degree program is in a general area of knowledge distinctly different from the field in which they earned their original degree. For example, a physics PhD could be admitted to a doctoral degree program in music or history; however, a student with a doctoral degree in mathematics would not be permitted to add a PhD in statistics.
2. Applicants who hold the PhD degree may be admitted to a professional doctorate or professional master’s degree program if there is no duplication of training involved.

Applicants may apply only to one single degree program or one concurrent degree program per admission cycle.

Required Documents for Applications

1. Transcripts: Applicants may upload unofficial transcripts with your application for the departmental initial review. If the applicant is admitted, then official transcripts of all college-level work will be required. Official transcripts must be in sealed envelopes as issued by the school(s) attended. If you have attended Berkeley, upload your unofficial transcript with your application for the departmental initial review. If you are admitted, an official transcript with evidence of degree conferral will not be required.

2. Letters of recommendation: Applicants may request online letters of recommendation through the online application system. Hard copies of recommendation letters must be sent directly to the program, not the Graduate Division.

3. Evidence of English language proficiency: All applicants from countries or political entities in which the official language is not English are required to submit official evidence of English language proficiency. This applies to applicants from Bangladesh, Burma, Nepal, India, Pakistan, Latin America, the Middle East, the People’s Republic of China, Taiwan, Japan, Korea, Southeast Asia, most European countries, and Quebec (Canada). However, applicants who, at the time of application, have already completed at least one year of full-time academic course work with grades of B or better at a US university may submit an official transcript from the US university to fulfill this requirement. The following courses will not fulfill this requirement:
   • courses in English as a Second Language,
   • courses conducted in a language other than English,
   • courses that will be completed after the application is submitted, and
   • courses of a non-academic nature.
If applicants have previously been denied admission to Berkeley on the basis of their English language proficiency, they must submit new test scores that meet the current minimum from one of the standardized tests. Official TOEFL score reports must be sent directly from Educational Test Services (ETS). The institution code for Berkeley is 4833. Official IELTS score reports must be mailed directly to our office from British Council. TOEFL and IELTS score reports are only valid for two years.

Where to Apply
Visit the Berkeley Graduate Division application page (http://grad.berkeley.edu/admissions/apply).

Admission to the MLA Program
A bachelor's degree is the minimum requirement for admission to the graduate program. It is recommended that applicants have completed a minimum of one basic course each in the life, earth and social sciences. In addition, graphics and freehand drawing are strongly recommended for applicants with non-design backgrounds. The MLA 3D is accredited by the Landscape Architecture Accreditation Board part of the American Society of Landscape Architects. The department also offers two specialized advanced standing options for the accredited degree based on previous degrees, the MLA 2D and the MLA EP.

MLA 3D: First Professional Degree
The three-year MLA degree (http://ced.berkeley.edu/academics/landscape-architecture-environmental-planning/programs/master-of-landscape-architecture/first-professional-degree) is the accredited first professional degree. This degree is for students without backgrounds in design, planning, or environmental science who wish to emphasize landscape design.

MLA 2D: Advanced Standing Professional Degree
The two-year MLA degree (http://ced.berkeley.edu/academics/landscape-architecture-environmental-planning/programs/master-of-landscape-architecture/second-professional-degree) is an advanced standing option for students with first degrees in landscape architecture, architecture, or environmental design who wish to pursue graduate degrees specializing in landscape design.

MLA EP: Environmental Planning
The two-year MLA in environmental planning (http://ced.berkeley.edu/academics/landscape-architecture-environmental-planning/programs/master-of-landscape-architecture/environmental-planning) is an advanced standing option for students with first degrees in landscape architecture, architecture, the environmental sciences, city planning, or related degrees specializing in large-scale landscape planning and the application of geographic information science (GIS).

Admission to the PhD Program
Admission is granted to a small number of individuals each year. Most successful applicants have completed a Master degree before entering. Students with only a bachelor's degree should apply to the MLA program first or otherwise complete an appropriate master's degree before applying.

The Department of Landscape Architecture and Environmental Planning offers three Master of Landscape Architecture (MLA) degree options accredited by the Landscape Architecture Accreditation Board (LAAB) of the American Society of Landscape Architects (ASLA) structured to provide advanced professional learning in landscape design and planning:

- The three-year MLA degree (http://ced.berkeley.edu/academics/landscape-architecture-environmental-planning/programs/master-of-landscape-architecture/first-professional-degree) is the first professional degree for students with non-design backgrounds.
- The two-year MLA degree (http://ced.berkeley.edu/academics/landscape-architecture-environmental-planning/programs/master-of-landscape-architecture/second-professional-degree) an advanced standing option for those students with first degrees in landscape architecture, architecture, or environmental design.
- The two-year environmental planning (http://ced.berkeley.edu/academics/landscape-architecture-environmental-planning/programs/)

Degree Requirements
Students formulate coursework plans (to include the PhD seminar) to develop an individual specialization within the field, which must be approved by the students' program advisers. PhD requirements are as follows: 32 units of upper division and graduate coursework, a two-year academic residency, reading knowledge of a departmentally approved foreign language, successful completion of a qualifying examination, and a dissertation.

Progress toward the degree is evaluated at least annually by the PhD committee. By no later than the end of the third semester, students will be evaluated as to their suitability for completing the PhD degree. Any student who, in the opinion of the faculty, seems unlikely to be able to complete all degree requirements (including dissertation research) will be subject to dismissal.

Curriculum
LD ARCH 255 Doctoral Seminar in Environmental Planning (Five semesters) 1
Individualized approved study list, as per student's research interest 27

Research
Participation of faculty in research increases the base of knowledge and theory in support of teaching and the profession. PhD students are often involved in these research topics as research assistants. Current topics include natural resource analysis, computerized inventories, environmental impact studies, methods of shoreline classification, principles of forest landscape design, urban livability studies, urban perception, case studies in urban design, morphological studies of the urban edge, environmental interpretation, behavior in parks and open spaces, community recreation projects, and environmental simulation.

Admissions Criteria
Admission to the PhD program is granted to a small number of highly qualified individuals each year. Applicants should have completed a master's degree before entering. Students with only a bachelor's degree should apply to the MLA program first, or otherwise complete an appropriate master's degree before applying.
master-of-landscape-architecture/environmental-planning) is an advanced standing option for students with first degrees in landscape architecture, architecture, the environmental sciences, city planning, or related degrees.

**Degree Requirements**

Students are required to select and complete one of two plans for the degree: Plan I—Thesis, or Plan II—Comprehensive Exam (professional project or designated studio.) The thesis is for students who wish to do original research on a problem in landscape architecture or environmental planning. The thesis committee is composed of two faculty members from the Department of Landscape Architecture and Environmental Planning and a third faculty member from another department at Berkeley. The comprehensive exam format can be either a professional project or a designated studio that demonstrates broad competence plus the concepts and skills necessary to the field of landscape architecture. The professional project comprises a real-world project. The professional project committee is composed of two faculty members from the Department of Landscape Architecture and Environmental Planning and a third member from outside the University community affiliated with the project.

Students may elect to fulfill the final degree requirement through the successful completion of a comprehensive exam studio taken in their final semester. Students who are in the Environmental Planning Concentration or in one of the concurrent degree programs are not eligible for the comprehensive exam studio option.

In addition, a summer internship (preferably taken the summer before the student's final year) is recommended. Previous professional experience may be substituted for this internship.

Normative time for the MLA degree is either two years (design background and environmental planning students) or three years (non-design background). A student's normative time is determined when the student enters the MLA program.

**Public Information Policy**

Public Information Policy Programs accredited by the Landscape Architectural Accreditation Board (LAAB) are required to provide reliable information to the public. Programs must report on accreditation status and its performance. This information is to help potential students make informed application decisions. To review this information, click here (http://ced.berkeley.edu/downloads/academic/accreditation/2014_file_LAAB_Public_Information_Policy.pdf).

**Curriculum**

**MLA 3D Option (Three Years): First Professional Degree (84 Units Required)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>LD ARCH 110</td>
<td>Ecological Analysis</td>
<td>3</td>
</tr>
<tr>
<td>LD ARCH 110L</td>
<td>Ecological Analysis Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>LD ARCH 112</td>
<td>Landscape Plants: Identification and Use</td>
<td>4</td>
</tr>
<tr>
<td>LD ARCH 120</td>
<td>Topographic Form and Design Technology</td>
<td>3</td>
</tr>
<tr>
<td>LD ARCH 121</td>
<td>Design in Detail: Introduction to Landscape Materials and Construction</td>
<td>4</td>
</tr>
<tr>
<td>LD ARCH 134A</td>
<td>Drawing Workshop I</td>
<td>3</td>
</tr>
<tr>
<td>LD ARCH 134B</td>
<td>Drawing Workshop II</td>
<td>3</td>
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<tr>
<td>LD ARCH 135</td>
<td>The Art of Landscape Drawing</td>
<td>3</td>
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<tr>
<td>LD ARCH 160</td>
<td>Professional Practice Seminar</td>
<td>3</td>
</tr>
<tr>
<td>LD ARCH 170</td>
<td>History and Literature of Landscape Architecture</td>
<td>3</td>
</tr>
<tr>
<td>LD ARCH 200A</td>
<td>Fundamentals of Landscape Design</td>
<td>5</td>
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<tr>
<td>LD ARCH 200B</td>
<td>Case Studies in Landscape Design</td>
<td>5</td>
</tr>
<tr>
<td>LD ARCH 201</td>
<td>Ecological Factors in Landscape Design</td>
<td>5</td>
</tr>
<tr>
<td>LD ARCH 202</td>
<td>Design of Landscape Sites</td>
<td>5</td>
</tr>
<tr>
<td>or LD ARCH 205</td>
<td>Environmental Planning Studio</td>
<td>2</td>
</tr>
<tr>
<td>LD ARCH 251</td>
<td>Theories of Landscape Architecture and Environmental Planning</td>
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</tr>
<tr>
<td>LD ARCH 254</td>
<td>Topics in Landscape Architecture and Environmental Planning</td>
<td>1</td>
</tr>
<tr>
<td>Select one social factors course from departmental breadth list</td>
<td>3</td>
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<tr>
<td>Select one studio requirement from the following:</td>
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<td></td>
</tr>
<tr>
<td>LD ARCH 203</td>
<td>Landscape Project Design [5]</td>
<td></td>
</tr>
<tr>
<td>or LD ARCH C208</td>
<td>course Not Available</td>
<td></td>
</tr>
<tr>
<td>ARCH 201</td>
<td>Architecture &amp; Urbanism Design Studio [5] (by petition)</td>
<td></td>
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<tr>
<td>Select one of the following:</td>
<td>2-3</td>
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**Elective**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>Final Degree Studio:</td>
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<tr>
<td>LD ARCH 204</td>
<td>Advanced Project Design [5]</td>
<td></td>
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<tr>
<td>or CY PLAN 24</td>
<td>Advanced Studio: Urban Design/Environmental Planning</td>
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</tbody>
</table>

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<thead>
<tr>
<th>Elective</th>
<th>Variable</th>
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</table>

**MLA 2D Option (Two Years): Advanced Professional Degree (LA UG Degree, 49 Units Required; ARCH UG Degree, 55 Units Required)**

<table>
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<tr>
<td>LD ARCH 160</td>
<td>Professional Practice Seminar</td>
<td>3</td>
</tr>
<tr>
<td>LD ARCH 201</td>
<td>Ecological Factors in Urban Landscape Design</td>
<td>5</td>
</tr>
<tr>
<td>Select one course in landscape plants and their applications from the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>LD ARCH 111</td>
<td>Plants in Design [3]</td>
<td></td>
</tr>
<tr>
<td>LD ARCH 112</td>
<td>Landscape Plants: Identification and Use [4]</td>
<td></td>
</tr>
</tbody>
</table>

| Course Not Available | | |
|----------------------|------------|

Individualized study list based on the following (some courses may be waived by petition):

Select one or two additional studios (dependent on student's background) from the following: 1

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>LD ARCH 202</td>
<td>Design of Landscape Sites</td>
<td></td>
</tr>
<tr>
<td>LD ARCH 203</td>
<td>Landscape Project Design [5]</td>
<td></td>
</tr>
<tr>
<td>or LD ARCH C208</td>
<td>course Not Available</td>
<td></td>
</tr>
<tr>
<td>LD ARCH 204</td>
<td>Advanced Project Design [5]</td>
<td></td>
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<tr>
<td>LD ARCH 205</td>
<td>Environmental Planning Studio</td>
<td></td>
</tr>
<tr>
<td>ARCH 201</td>
<td>Architecture &amp; Urbanism Design Studio [5]</td>
<td></td>
</tr>
</tbody>
</table>
Select one course in landscape history from the following:  

LD ARCH 170 History and Literature of Landscape Architecture  [3]

Select one course in landscape structures/infrastructures from the following:  

LD ARCH 121 Design in Detail: Introduction to Landscape Materials and Construction  [4]
LD ARCH 226 Landscape Design Construction  [2]

Select one course in natural factors from the departmental breadth list  

LD ARCH 252B Thesis and Professional Project Proposal Seminar (required for thesis/professional project students only)

Select one of the following:  


Final Degree Studio from one of the following:  

LD ARCH 204 Advanced Project Design  [5]

Electives Variable

1 Students with architecture backgrounds must enroll in LD ARCH 110, LD ARCH 110L, LD ARCH 112, LD ARCH 121, LD ARCH 170, LD ARCH 202 or LD ARCH 205.

2 May be waived by petition.

MLA EP Option (Two Years): Environmental Planning (55 Units Required)

LD ARCH 134A Drawing Workshop I  [3]
LD ARCH 134B Drawing Workshop II  [3]
LD ARCH C188 Geographic Information Systems  [4]
LD ARCH 200A Fundamentals of Landscape Design  [5]
LD ARCH 221 Quantitative Methods in Environmental Planning  [3]
LD ARCH 237 The Process of Environmental Planning  [3]
LD ARCH 254 Topics in Landscape Architecture and Environmental Planning  [1]

Select one social factors course from departmental breadth list  [3]
Select one natural factors course from departmental breadth list  [3]

Electives Variable

LD ARCH 200A Fundamentals of Landscape Design 5 Units

Terms offered: Fall 2018, Fall 2017, Fall 2016
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.
Fundamentals of Landscape Design: Read More [+]

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/Graduate
Grading: Letter grade.
Instructor: Hill

Fundamentals of Landscape Design: Read Less [-]

LD ARCH 200B 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.
Case Studies in Landscape Design: Read More [+]

Rules & Requirements

Prerequisites: Landscape Architecture 200A

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/Graduate
Grading: Letter grade.
Instructor: Hood

Formerly known as: Landscape Architecture 102
Case Studies in Landscape Design: Read Less [-]
LD ARCH 201 Ecological Factors in Urban Landscape Design 5 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Through lectures, studio problems, research projects, and discussion, this course will explore the challenge and potential incorporating ecological factors in urban contexts. The course focuses on the interaction of landscape science (hydrology, geology, etc.) with the necessities and mechanisms of the human environment (urban design, transportation, economics, etc.). Lectures and research projects will particularly emphasize innovative and forward thinking solutions to the ecological problems of the human environment. Throughout the semester, reading and discussion sessions will highlight the connections between the broader concerns of the global ecological crisis and landscape design and planning.

LD ARCH 202 Design of Landscape Sites 5 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
A site design studio stressing the shaping and coordination of ideas from initial concept to the thoughtful execution of design ideas at the site scale. Typical projects will be of an intermediate scale and might include a park, plaza, museum sculpture garden, playground, office park, or housing project. Modules on social factors and planting design are included.

LD ARCH 203 Landscape Project Design 5 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
A site design studio stressing the shaping and coordination of ideas from initial concept to the thoughtful execution of design ideas at the site scale. Typical projects will focus on the experiential rather than the pictorial. Projects might include a park, plaza, or rehabilitation of a brownfield site.

LD ARCH 204 Advanced Project Design 5 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Special topics in the design and planning of the landscape. The focus of the studio varies from semester to semester. Possible topics include community design, educative environments, landscape as art, park design, or energy-conserving design. For current offerings, see department announcement.

Rules & Requirements
Prerequisites: 110, 134A-134B, 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/Graduate
Grading: Letter grade.

Instructor: Meyer
Advanced Project Design: Read Less [-]
LD ARCH 205 Environmental Planning Studio
5 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Application of environmental planning principles to a complex problem involving a variety of environmental criteria and desired land uses in a complex institutional and political setting. Student teams will identify needed data, assess environmental developmental problems, weigh competing uses, and prepare an environmental management plan.

Environmental Planning Studio: Read More [+]

Rules & Requirements
Prerequisites: 201 or consent of instructor

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/Graduate
Grading: Letter grade.
Instructors: Radke, Kondolf

Environmental Planning Studio: Read Less [-]

LD ARCH 206 Final Project Preparation Studio: Thesis and Reports 5 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
This is a spring studio for students to work on final projects (theses and professional reports). The studio, including lectures by the instructor, is meant to train and assist students in thesis or professional project research and help them in finalizing their thesis or professional report topic. The course includes weekly exercises ranging from writing articles documenting, illustrating, and critiquing landscapes to finally producing a thesis or professional report.

Final Project Preparation Studio: Thesis and Reports: Read More [+]

Rules & Requirements
Prerequisites: 252 and graduate standing

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/Graduate
Grading: Letter grade.
Instructor: Mozingo

Final Project Preparation Studio: Thesis and Reports: Read Less [-]

LD ARCH 221 Quantitative Methods in Environmental Planning 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Discussion and critique of the application of quantitative methods to environmental assessment, analysis, and evaluation in environmental planning. Topics to include geographical information systems and data bases, remote sensing, and multivariate analysis. This course emphasizes computer applications and data analysis.

Quantitative Methods in Environmental Planning: Read More [+]

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

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Instructor: Radke

Quantitative Methods in Environmental Planning: Read Less [-]

LD ARCH 222 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 sufficient to coordinate with technical specialists in the field of hydrology. In addition, relevant regulations and policies are reviewed.

Hydrology for Planners: Read More [+]

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/Graduate
Grading: Letter grade.
Instructor: Kondolf

Hydrology for Planners: Read Less [-]
LD ARCH 226 Landscape Design Construction 2 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
The course investigates the process of developing schematic landscape design proposals into constructed landscapes. Emphasis will be placed on understanding the durability of materials and design details, the efficient use of materials, and the ability to evaluate how material selection and detailing can impact the environment. Field trips to construction sites, manufacturing facilities, and built landscapes will be included.

LD ARCH C231 Environmental Planning and Regulation 3 Units
Terms offered: Fall 2018, Spring 2015, Fall 2014, Fall 2013
This course will examine emerging trends in environmental planning and policy and the basic regulatory framework for environmental planning encountered in the U.S. We will also relate the institutional and policy framework of California and the United States to other nations and emerging international institutions. The emphasis of the course will be on regulating "residuals" as they affect three media: air, water, and land.

LD ARCH 227 Restoration of Rivers and Streams 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
This course reviews the underlying goals and assumptions of river and stream restoration projects, reviews techniques employed in these efforts, and emphasizes strategies for evaluation of project success. The course focuses on geomorphic and hydrologic analyses relevant to restoration and enhancement of aquatic and riparian habitat in freshwater systems.

LD ARCH 232 The Landscape As a Sacred Place 3 Units
Terms offered: Spring 2018, Spring 2017, Spring 2010
Visual and cultural analysis of landscapes, inventory procedures for “place” values, and problems related to sustainable design development, with special emphasis on highly valued places.
LD ARCH 234A Introduction to Drawing for Landscape Architects 3 Units

Terms offered: Fall 2018
Landscapes are dynamic environments in constant stages of flux.
Graphic traditions employed in the allied fields of architecture and planning are foundational but as landscape architects, we need different tools to imagine, investigate, and produce descriptions of built and unbuilt space and form. Graphic communication is essential to demystify, analyze, and interpret essential landscape components such as time, process, and performance.
Introduction to Drawing for Landscape Architects: Read More [+]

Rules & Requirements
Prerequisites: LD ARCH 200A LANDSCAPE DESIGN

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

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Instructors: Hood, Cooper

Introduction to Drawing for Landscape Architects: Read Less [-]

LD ARCH 234B Landscape Processes through Drawing and Modeling 3 Units

Terms offered: Spring 2019
This course will explore landscape representation through a variety of drawing types and conventions, across a range of scales, and through a deep engagement with digital media. This course builds on the foundational methods developed in LA 234A, incorporating new methods, tools, and techniques for digital visualization. The course is structured through lectures and discussions about the historical and theoretical relevance of the theme, as well as lab sessions focused on demonstrating representational tools and techniques. Simultaneous to these units, continued development of analog sketching will be expected.
Landscape Processes through Drawing and Modeling: Read More [+]

Rules & Requirements
Prerequisites: LD ARCH 234A or equivalent

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/Graduate
Grading: Letter grade.
Instructor: Sullivan

Landscape Processes through Drawing and Modeling: Read Less [-]

LD ARCH 235 Design Thinking: Art, Nature, Consciousness 3 Units

Terms offered: Fall 2018, Spring 2004, Spring 2002
This course is a laboratory for design thinking, invention and visual perception. A designed landscape has the potential to induce a powerful emotional experience. The premise of this course is based on the idea that highly valued places are works of art, as well as places of enlightenment and transformation. This class will explore ideas of 'sacredness' in the landscape through a series of design explorations and a summation project. Our journey of discovery aspires to provide future landscape architects with a new and unique perspective to help them recognize and generate sacred landscapes. Design Thinking will outline a process for creative practice that builds upon historic approaches while imagining new possibilities.
Design Thinking: Art, Nature, Consciousness: Read More [+]

Rules & Requirements
Prerequisites: LD ARCH 134A

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

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Instructor: Sullivan

Design Thinking: Art, Nature, Consciousness: Read Less [-]

LD ARCH 237 The Process of Environmental Planning 3 Units

Terms offered: Fall 2018, Fall 2017, Fall 2016
A review of the techniques used in environmental planning, and evaluation of alternate means of implementation in varying environmental and political circumstances. The class will examine and critique a number of well-known environmental planning programs and plans. Lectures and discussion will address recurrent planning problems, such as the limitations of available data, legal and political constraints on plans, conflicts among specialists.
The Process of Environmental Planning: Read More [+]

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

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Instructor: Hill

The Process of Environmental Planning: Read Less [-]
LD ARCH C241 Research Methods in Environmental Design 4 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Research Methods in Environmental Design: Read More [+]
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/Graduate
Grading: Letter grade.
Instructor: Bosselmann
Formerly known as: Interdepartmental Studies 241
Also listed as: CY PLAN C241
Research Methods in Environmental Design: Read Less [-]

LD ARCH C242 Citizen Involvement in the City Planning Process 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
An examination of the roles of the citizens and citizen organizations in the city planning process. Models for citizen involvement ranging from advising to community control. Examination of the effectiveness of different organizational models in different situations.
Citizen Involvement in the City Planning Process: Read More [+]
Rules & Requirements
Credit Restrictions: Students will not receive credit for C242 after taking City and Regional Planning 208, Interdepartmental Studies 206 Fall 1990, and Interdepartmental Studies 206 Fall 1991.
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Instructor: Macdonald
Formerly known as: Interdepartmental Studies 223
Also listed as: CY PLAN C240
Citizen Involvement in the City Planning Process: Read Less [-]

LD ARCH C250 Theories of Urban Form and Design 3 Units
Terms offered: Fall 2018, Spring 2017, Spring 2016
Theories and patterns of urban form throughout history are studied with emphasis on the role of planning and design in shaping cities and the relationship between urban form and social, economic, and geographic factors. Using a case study approach, cities are evaluated in terms of various theories and performance dimensions.
Theories of Urban Form and Design: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Instructor: Macdonald
Also listed as: CY PLAN C240
Theories of Urban Form and Design: Read Less [-]

LD ARCH 251 Theories of Landscape Architecture and Environmental Planning 2 Units
Terms offered: Fall 2016, Spring 2016, Fall 2014
The focus will be on debate and discussion of central ideas in landscape architecture and environmental planning, drawing on primary literature over many decades of thought. This is not a history course, but it will include some literature that goes back to the early years of the field. This course covers the breadth of thinking in the field, including both environmental planning and landscape design as well as other sub disciplines. Each week students will lead a debate on a different theoretical issue.
Theories of Landscape Architecture and Environmental Planning: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Instructor: Mozingo
Theories of Landscape Architecture and Environmental Planning: Read Less [-]
LD ARCH 252B Thesis and Professional Project Proposal Seminar 3 Units
Terms offered: Fall 2018, Fall 2017, Fall 2016
Students learn research methods including social factors, historical/archival, design exploration, master planning, theoretical, and scientific field work. Students develop a conceptual framework, survey instrument, literature review, and detailed work plan. A full committee and funding proposal due on the last day of class.
Thesis and Professional Project Proposal Seminar: Read More [+]

Rules & Requirements
Prerequisites: 252A

Hours & Format
Fall and/or spring: 15 weeks - 1.5 hours of seminar and 1.5 hours of discussion per week

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.

LD ARCH 253 Landscape Architecture and Environmental Planning Colloquium 1 Unit
Terms offered: Spring 2019, Fall 2018, Spring 2018
Invited lectures on current research, planning practice, and design projects. Out of approximately 14 presentations per term, typically two or three would be by department faculty, two or three by graduating students, the remainder by outside speakers.
Landscape Architecture and Environmental Planning Colloquium: Read More [+]

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

Hours & Format
Fall and/or spring: 15 weeks - 1.5 hours of colloquium per week

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

LD ARCH 254 Topics in Landscape Architecture and Environmental Planning 1 - 5 Units
Terms offered: Spring 2019, Fall 2018, Spring 2018
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.
Topics in Landscape Architecture and Environmental Planning: Read More [+]

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

Hours & Format
Fall and/or spring: 15 weeks - 1-5 hours of seminar per week

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.

LD ARCH 255 Doctoral Seminar in Environmental Planning 1 Unit
Terms offered: Spring 2019, Fall 2018, Spring 2018
Designed to be a forum for presentation of doctoral student research, discussions with faculty researchers and environmental planning practitioners, and examination of topical issues in environmental planning. Topics will be announced at the beginning of each semester.
Doctoral Seminar in Environmental Planning: Read More [+]

Rules & Requirements
Prerequisites: Doctoral student or consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 8 weeks - 3 hours of seminar per week

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.

Doctoral Seminar in Environmental Planning: Read Less [-]
LD ARCH 257 Special Topics in Design 1 - 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Research seminar on selected topics in landscape design. Seminars will focus on the theoretical foundations and practical applications of design and planning methods as well as emerging issues in the discipline. Seminars will include lectures by the faculty member offering the course, guest lecturers, student presentations, and discussions. Readings and requirements vary from year to year based on the topic and instructor.

Rules & Requirements
Prerequisites: Graduate standing or consent of instructor
Repeat rules: Course may be repeated for credit when topic changes.

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

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: The grading option will be decided by the instructor when the class is offered.

Special Topics in Design: Read Less [-]

LD ARCH 287 Representation as Research: Contemporary Topics in Landscape Visualization 3 Units
Terms offered: Spring 2019
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/Graduate
Grading: Letter grade.

Instructor: Cooper

Representation as Research: Contemporary Topics in Landscape Visualization: Read Less [-]
LD ARCH 289 Applied Remote Sensing 3 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
This course consists of one lecture and one computer lab per week introducing fundamental principles and methods of environmental remote sensing and their practical applications. We will explore strategies for working with different types of remote sensing data and extracting image-based landscape information for various environmental research and planning objectives. This course focuses largely on local to regional scale applications of remote sensing in ecology, environmental planning and design, civil & environmental engineering and natural resource management.

LD ARCH 295 Supervised Research in Landscape Architecture and Environmental Planning 2 Units
Terms offered: Fall 2015, Fall 2014, Fall 2013
Supervised experience on a research project in landscape architecture and/or environmental planning. Regular meetings with faculty sponsor required. See departmental sheet for other limitations.

LD ARCH 296 Directed Dissertation Research 1 - 12 Units
Terms offered: Fall 2015, Fall 2014, Spring 2014
Open to qualified students who have been advanced to candidacy for the Ph.D. degree and are directly engaged upon the doctoral dissertation.

Rules & Requirements

Objectives
Course Objectives: Become familiar with different types of data and instruments in remote sensing and learn how to choose the optimal remote sensing data and procedure for various landscape and environmental analysis applications.
Develop the capacity to work with the remote sensing literature and synthesize the relevant knowledge across different studies.
Explore traditional and novel remote sensing techniques and their use in landscape planning, environmental studies and natural resource management.
Learn practical skills and techniques to extracting landscape information from remote sensing data as image interpretation, classification, accuracy assessment, mapping and change analysis.

Rules & Requirements
Prerequisites: An introductory GIS course such as LA C188/Geography C188, ESPM 233 or equivalent

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

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Instructor: Dronova

LD ARCH 295 Supervised Research in Landscape Architecture and Environmental Planning 2 Units
Terms offered: Fall 2015, Fall 2014, Fall 2013
Supervised experience on a research project in landscape architecture and/or environmental planning. Regular meetings with faculty sponsor required. See departmental sheet for other limitations.

Rules & Requirements
Prerequisites: Graduate standing and appointment as a research assistant
Credit Restrictions: Any combination of 295 or 297 may be taken for a total of six units maximum toward the M.L.A degree.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

LD ARCH 296 Directed Dissertation Research 1 - 12 Units
Terms offered: Fall 2015, Fall 2014, Spring 2014
Open to qualified students who have been advanced to candidacy for the Ph.D. degree and are directly engaged upon the doctoral dissertation.

Rules & Requirements
Prerequisites: Advancement to Ph.D. candidacy
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 1-12 hours of independent study per week
Summer: 8 weeks - 1.5-22.5 hours of independent study per week

Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
LD ARCH 297 Supervised Field Study 1 - 3 Units
Terms offered: Fall 2018, Spring 2016, Fall 2015
Supervised experience relative to specific aspects of practice in
landscape architecture and/or environmental planning. Regular meetings
with faculty and outside sponsor as well as final report required. See
departmental information sheet for other limitations.
Supervised Field Study: Read More [+]
Rules & Requirements
Prerequisites: Graduate standing and consent of instructor and sponsor
Credit Restrictions: Any combination of 295 or 297 may be taken for a
total of six units maximum toward the M.L.A. degree.
Hours & Format
Fall and/or spring: 15 weeks - 1-3 hours of fieldwork per week
Summer: 8 weeks - 2-6 hours of fieldwork per week
Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Supervised Field Study: Read Less [-]

LD ARCH 298 Group Study 1 - 4 Units
Terms offered: Spring 2016, Spring 2015, Fall 2014
Special group studies. Topics to be announced at the beginning of each semester.
Group Study: Read More [+]
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Group Study: Read Less [-]

LD ARCH 299 Individual Research 1 - 6 Units
Terms offered: Fall 2018, Spring 2016, Fall 2015
Research work conducted preparatory to completion of the thesis or
professional project as well as other approved research. A maximum of
six units will be counted toward the M.L.A degree. The six units allows
for four units maximum for thesis or professional project research, and
two units maximum for other approved research. See departmental
information sheet for other limitations.
Individual Research: Read More [+]
Rules & Requirements
Prerequisites: Graduate standing and consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Summer:
6 weeks - 2.5-30 hours of independent study per week
8 weeks - 1.5-22.5 hours of independent study per week
Additional Details
Subject/Course Level: Landscape Architecture/Graduate
Grading: Letter grade.
Individual Research: Read Less [-]

LD ARCH 300 Supervised Teaching in Landscape Architecture and Environmental Planning 2 Units
Terms offered: Spring 2019, Spring 2018, Spring 2017
Supervised teaching experience in undergraduate courses. Regular
meetings with faculty sponsor. See departmental sheet for other
limitations.
Supervised Teaching in Landscape Architecture and Environmental Planning: Read More [+]
Rules & Requirements
Prerequisites: Graduate standing and appointment as a Teaching Assistant
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Landscape Architecture/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Supervised Teaching in Landscape Architecture and Environmental Planning: Read Less [-]
LD ARCH 301 Methods of Teaching in Landscape Architecture and Environmental Planning 2 Units
Terms offered: Fall 2012, Fall 2010, Fall 2009
This course presents general pedagogical principles and methods adapted to teaching in the fields of landscape architecture, environmental planning, and environmental sciences. The format varies from week to week, but involves presentations by faculty and experienced graduate student instructors (GSIs), guided discussions, sharing of teaching experiences for current GSIs, discussion of readings on effective teaching, viewing of videos, and presentation by GSIs of sections for upcoming weeks. Required of all graduate students to be eligible for appointment as GSIs; may be taken concurrently with first GSI position for entering students. Topics include learning objectives, lesson plans, active learning, group learning, classroom diversity, assessing student learning, giving constructive feedback, teaching in the studio environment, engaging students through field exercises, grading, and composing effective tests.
Methods of Teaching in Landscape Architecture and Environmental Planning: Read More [+]
Rules & Requirements
Prerequisites: Graduate student standing
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Landscape Architecture/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Methods of Teaching in Landscape Architecture and Environmental Planning: Read Less [-]

LD ARCH 375 Methods of Teaching in Landscape Architecture and Environmental Planning 2 Units
Terms offered: Fall 2018, Fall 2016, Fall 2014
This course presents general pedagogical principles and methods adapted to teaching in the fields of landscape architecture, environmental planning, and environmental sciences. The format varies from week to week, but involves presentations by faculty and experienced graduate student instructors (GSIs), guided discussions, sharing of teaching experiences for current GSIs, discussion of readings on effective teaching, viewing of videos, and presentation by GSIs of sections for upcoming weeks. Required of all graduate students to be eligible for appointment as GSIs; may be taken concurrently with first GSI position for entering students. Topics include learning objectives, lesson plans, active learning, group learning, classroom diversity, assessing student learning, giving constructive feedback, teaching in the studio environment, engaging students through field exercises, grading, and composing effective tests.
Methods of Teaching in Landscape Architecture and Environmental Planning: Read More [+]
Rules & Requirements
Prerequisites: Graduate student standing
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Landscape Architecture/Professional course for teachers or prospective teachers
Grading: Offered for satisfactory/unsatisfactory grade only.
Formerly known as: Landscape Architecture 301
Methods of Teaching in Landscape Architecture and Environmental Planning: Read Less [-]

LD ARCH 601 Individual Study for Master's Students 1 - 8 Units
Terms offered: Fall 2015, Fall 2014, Fall 2013
Individual study for final degree requirements in consultation with adviser.
Individual Study for Master's Students: Read More [+]
Rules & Requirements
Prerequisites: Last semester of residence in M.L.A. program
Credit Restrictions: Course does not satisfy unit or residence requirements for master's degree.
Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week
Additional Details
Subject/Course Level: Landscape Architecture/Graduate examination preparation
Grading: Offered for satisfactory/unsatisfactory grade only.
Individual Study for Master's Students: Read Less [-]
LD ARCH 602 Individual Study for Doctoral Students 1 - 8 Units
Terms offered: Spring 2016, Fall 2015, Spring 2015
Individual study in consultation with the major field adviser, intended to provide an opportunity for qualified students to prepare themselves for the various examinations required of candidates for the Ph.D.

Individual Study for Doctoral Students: Read More [+]

Rules & Requirements

Prerequisites: For candidates for doctor's degree

Credit Restrictions: Course does not satisfy unit or residence requirements for doctoral degree.

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

Hours & Format

Fall and/or spring: 15 weeks - 0-0 hours of independent study per week
Summer: 10 weeks - 0-0 hours of independent study per week

Additional Details

Subject/Course Level: Landscape Architecture/Graduate examination preparation

Grading: Offered for satisfactory/unsatisfactory grade only.

Individual Study for Doctoral Students: Read Less [-]