

LANDSCAPE ARCHITECTURE & HORTICULTURE

114 LANDSCAPE ARCHITECTURE

117 HORTICULTURE & GARDENING

For more information call (310) 825-9414.

WHAT OUR STUDENTS SAY

“This horticulture program has granted me the opportunity to acquire the skills and knowledge necessary to further my education and follow my passion of growing food. Because of this program I have my dream job!”

– **Wendi Dunn**, Horticulture Certificate Student

Landscape Architecture

For more information call (310) 825-9414 or email landscapearchitecture@uclaextension.edu.

Note: The Landscape Architecture Program does not support AutoCAD on the Mac.

All CAD courses are fast-paced and complex; absence from any meeting is discouraged. The courses require at least three hours of computer work outside of class per week. Lab hours are not available; therefore, students must have access to their own hardware and software for the courses in which they enroll. Laptops are required for certain courses; check individual course descriptions for specifics.

FREE SOFTWARE AND SOFTWARE LICENSES

Certificate students may download AutoCAD for free upon proof of student status and may be eligible for academic rates on other software for their home computer. Prices and restrictions are subject to change. Software versions should reflect the version used in class as an older version may not possess the same interface or tools demonstrated in class. Each student must verify that his/her computer meets the software's minimum system requirements. For more information call (310) 825-9414.

ARCH X 472 Introduction to the Landscape Design Professions

4.0 units

This introductory course covers the history, scope, types, and scale of landscape design professions; licensure; professional societies; and current issues. Terminology, construction concepts, basic graphic skills, and model-making are also introduced.

Reg# 376032

Fee: \$925

No refund after 6 Oct.

❖ *Remote Instruction*

12 mtgs

Wednesday, 7-10pm, Sept. 30-Dec. 16

Saturday, 9am-12pm, Nov. 7

No meeting Nov. 11. 🌐 📖

Steve Lang, managing principal of the Southern California office of Moore Iacofano Goltman (MIG) in Fullerton. Specializing in park and recreation planning and design, Mr. Lang has been actively involved in award-winning projects for more than 35 years.



Become a Landscape Architect

Fall Quarter is the perfect time to start the Landscape Architecture Certificate with our two introductory courses.

ARCH X 472 Introduction to the Landscape Design Professions

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ARCH X 472.4D Design Graphics I: Drafting and Drawing of the Built Environment

Page 114.

- Designed for working professionals and those looking for a career change, this three-year, intensive program prepares you for the exciting and wonderful world of landscape architecture.
- You do not need to be a certificate student to enroll in the introductory courses.

Above: Jessyca Frederick

For More Information

(310) 825-9414 | landarch.uclaextension.edu

ARCH X 472.4D Design Graphics 1: Drafting and Drawing of the Built Environment

4.0 units

Students learn introductory drafting, lettering, and drawing techniques as they relate to the field of Landscape Architecture and professional standards. All work product is developed from Tongva Park, a real site located in Santa Monica. At the end of this course, students make a presentation to the instructor and visiting guests. The students present a package of work product that includes hand drafting of a dimensioned site plan, section/elevations, and perspective vignettes.

Reg# 376030

Fee: \$925

No refund after 4 Oct.

❖ *Remote Instruction*

11 mtgs

Monday, 6:30-9:30pm, Sept. 28-Nov. 16

Sunday, 9am-4pm, Nov. 15

Saturday, 10am-4pm, Nov. 21

Saturday, 9am-5pm, Dec. 12

Visitors not permitted. 🌐 📖

David Squires, MA in architecture and urban design, UCLA; BS in landscape architecture and regional planning, Washington State University. Mr. Squires is the principal of AroundYOU, a multi-disciplinary studio offering master planning, solar planning, architectural design, landscape architecture, and garden design.

Laura Razo, BSLA, MLA, project manager/landscape designer, who has more than 13 years of professional experience as a landscape designer and project manager. She received her BS in landscape architecture (BSLA) from Cal Poly, Pomona and received her MLA in 2015.

ARCH X 471.1A Landscape Design 1: Site Design Basics

4.0 units

This course explores basic design elements, principles, and issues relevant to landscape architecture. Projects emphasize abstract 3D space and form; the basics of site design: conceptual design, imagery, and symbolism; and basic issues of proportion, scale, and composition. *Prerequisite(s)*: ARCH X 472 Introduction to the Landscape Design Professions and ARCH X 472.4D Design Graphics I: Drafting and Drawing of the Built Environment.

Reg# 376029

Fee: \$925

No refund after 7 Oct.

❖ *Remote Instruction*

11 mtgs

Thursday, 7-10pm, Oct. 1-Dec. 17

No meeting Nov. 26. 🌐 📖

Steven Chavez, founding principal of SCA-LARC. Steven founded SCA-LARC in 2009 after working for Gustafson Guthrie Nichol of Seattle. He received his Bachelor of Landscape Architecture from the University of Washington. Mr. Chavez's core interest is designing high-use public and civic spaces.

Landscape Architecture Curriculum

Students can begin the program sequence Summer or Fall Quarter; courses must be taken in sequence & during the year indicated below.

Year 1

Summer/Fall	Fall/Winter	Winter/Spring	Spring/Summer
Introduction to the Landscape Design Professions (4 units) Design Graphics 1: Drafting and Drawing of the Built Environment (4 units)	Landscape Design 1: Site Design Basics (4 units) Design Graphics 2: Communication for Site Analysis, Conceptual, and Site Design (4 units)	Landscape Design 2: Site Design (4 units) Design Graphics 3: Digital Rendering and Presentation Drawings (4 units)	Landscape Design 3: Advanced Site Design (5 units) AutoCAD 1 (4 units) History of the Designed Landscape (4 units) <i>Only Offered Summer Quarter</i>

Year 2

Fall	Winter	Spring	Summer
Grading & Drainage (4 units) Plant Materials: Trees (4 units) Portfolio Review	Landscape Design 4: Sustainable Design/ Environmental Analysis and Planning (4 units) Plant Materials: Shrubs (4 units)	Landscape Design 5: Planting Design (4 units) AutoCAD 2 (4 units)	Landscape Design 6: Concept Development (4 units) Irrigation/Water Conservation (4 units)

Year 3

Fall	Winter	Spring	Summer
Landscape Construction Methods & Materials (4 units) Construction Drawing 1 (4 units) Professional Practices in Landscape Architecture (2 units)	Construction Drawing 2 (4 units) Human Factors in Landscape Architecture (4 units)	Landscape Design 7: Advanced Design Studio (5 units) Capstone Project Seminar (3 units)	Capstone Project Studio (10 units) Portfolio Review

- 6 elective units must be inserted into the 3-year plan before beginning the Capstone Project Studio.
- Students beginning Summer Quarter should expect the program to last 3 years and 1 quarter. They will receive individual advising and a slightly altered sequence.

For More Information

(310) 825-9414 | landarch.uclaextension.edu

Prepare for the LARE Exam

Studying for the LARE can be confusing and stressful, but UCLA Extension's highly regarded review program provides exceptional preparation for all areas of the exam.

LARE 1: Sat, Feb. 8, 9am–5pm

LARE 2: Sun, Feb. 9, 9am–5pm

LARE 3: Sun, Feb. 23, 9am–5pm

LARE 4: Fri & Sat, Feb. 21, 12–5pm
& Feb. 22, 9am–5pm

Courses begin on page 116.

Landscape Architecture and Horticulture & Gardening Programs

Free Online Information Sessions

Saturday, August 8

9:30–11:30am

Landscape Architecture
Enroll online using **Reg# 374436**

1–2:30pm

Horticulture & Gardening
Enroll online using **Reg# 374604**

For More Information
(310) 825-9414

Landscape Architecture Electives

Some Horticulture & Gardening courses count toward elective requirements in the Landscape Architecture certificate.

Horticulture & Gardening courses begin on page 117.



Beginning Stormwater Management

This 6-week elective course in the Landscape Architecture certificate program showcases unique design solutions and describes the methods and calculations used to design stormwater BMPs for a site to appropriately accommodate seasonal stormwater within the Southern California region.

Geared toward working professionals in urban planning, landscape architecture, civil engineering, architecture, and government municipalities. Students will learn and apply current regulatory requirements for stormwater management, hydrologic/hydraulic concepts, environmental site design, and stormwater plan compliance strategies.

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For More Information

landscapearchitecture@uclaextension.edu | (310) 825-9414

ARCH X 472.4E

Design Graphics 2: Communication for Site Analysis, Conceptual and Site Design

4.0 units

Students build upon drafting, lettering, and drawing techniques learned in Design Graphics 1. As the second class in the series, it also concentrates on the graphic conventions for site analysis, conceptual design, design process and measured plan, perspective, and section elevations as they relate to the field of landscape architecture and professional standards. All work product is developed from the Tongva Park site used in Design Graphics 1, located in Santa Monica. At the end of this course, students make an oral presentation to the instructor and visiting guests. The students present a package of work product that includes hand drafting and colored rendering of a conceptual site plan; section/elevations and perspective vignettes; and graphic package of progress drawings, including site analysis graphics, design concept studies, and a final design concept with supporting design elements.

Prerequisite(s): ARCH X 472 Introduction to the Landscape Design Professions and ARCH X 472.4D Design Graphics 1.

Reg# 376031

Fee: \$925

No refund after 5 Oct.

- ❖ Remote Instruction

11 mtgs

Tuesday, 7-10pm, Sept. 29-Dec. 8 🌐 📖

Rebecca Schwaner, MA, landscape and project designer at Studio-MLA. Her built work includes streetscapes, affordable housing environments, park and civic projects, and reclamation and restoration of habitat. In 2010 she was selected Outstanding Instructor of the year in Arts, Landscape Architecture Program.

ARCH X 472.12A

Grading and Drainage

4.0 units

This course covers the basic grading and drainage techniques used in every landscape architecture project. Students learn the skills necessary to grade a site of moderate complexity while considering public health, safety, and welfare. Instruction covers contour signatures and contour manipulation by cutting and/or filling and stormwater management techniques including low-impact design, bioretention, and detention and retention areas. Basic grading formulas and cut and fill calculations are presented. The course also introduces landform grading and erosion control together with road and path layout and alignment for pedestrian and vehicular circulation.

Prerequisite(s): ARCH X 472.4D Design Graphics 1, ARCH X 471.1B Landscape Design 2, ARCH X 493.992 Introduction to AutoCAD, or equivalent as determined by the program office.

Reg# 376034

Fee: \$925

No refund after 5 Oct.

- ❖ Remote Instruction

11 mtgs

Tuesday, 7-10pm, Sept. 29-Dec. 8 🌐 📖

Jeff Chamlee, BLA, landscape architect (CA 1736); director of productions for Architect Design Group. With more than 35 years' experience in a diverse array of project types, such as Kenneth Hahn State Recreation Area, Veterans Memorial Regional Park in Sylmar, and Roxbury Memorial Park in Beverly Hills, among many others.

ARCH X 472.8A

Plant Identification: Trees

4.0 units

One of the two required plant material courses; focuses on plants, their communities, and place in the landscape. Instruction focuses on large-scale materials that often influence the landscape architect's overall site composition. This course concentrates on trees, shrubs and companion plant groupings, and planting location

as design elements. Participants study plant texture, density, form, color, and other characteristics as articulators of space. Attention is given to cultural, taxonomical, and landscape maintenance idiosyncrasies. Each class meeting is either classroom/outdoors on campus or a field trip. Students must bring a camera to all classes.

Reg# 376076

Fee: \$925

No refund after 3 Oct.

- ❖ Remote Instruction

8 mtgs

Saturday, 9am-12pm, Oct. 10-Dec. 19

No meetings Nov. 14 & 29; Dec. 5. Three meetings to be arranged. 🌐 📖

Lisa Smith, arborist #464, and owner of The Tree Resource, a tree-consulting firm. She is currently president of the Board of Directors for the Western Chapter of the International Society of Arboriculture.

ARCH X 472.14A

Landscape Construction Methods and Materials

4.0 units

This course investigates the various materials used in building landscapes (masonry, concrete, wood, metal, water, and lighting). Their physical properties, characteristics, and applications in terms of function and aesthetics are also studied and evaluated. Students demonstrate knowledge and proper use of these materials in detailed exercises and drawings.

Prerequisite(s): ARCH X 472.19 Landscape Design 6: Concept Development, ARCH X 493.6 AutoCAD 2, and ARCH X 472.12B Irrigation Practices and Water Conservation.

Reg# 376036

Fee: \$925

No refund after 6 Oct.

- ❖ Remote Instruction

10 mtgs

Wednesday, 7-10pm, Sept. 30-Dec. 16

No meetings Nov. 11 & 25. One weekend meeting to be arranged.

Must be taken before or concurrently with X 472.14B Landscape Construction Drawing I.

Laptop highly recommended. 🌐 📖

Patrick Reynolds, landscape architect (CA 4440), landscape contractor, certified irrigation designer and auditor, and CEQA and NEPA Certified. His 35 years' experience ranges from design, park master planning; land acquisitions; trails design and construction. Mr. Reynolds is currently the Parks Division manager for Culver City.

ARCH X 472.14B

Landscape Construction Drawing I

4.0 units

This construction drawing course imparts a working knowledge of procedures and techniques. Students learn the process of assembling a complete and comprehensive set of construction drawings in which title and base sheets, dimensioned layout sheets, and demolition plans are prepared. Grading, drainage, and other drawings prepared in other courses are incorporated into the overall document package.

Prerequisite(s): ARCH X 493.992 AutoCAD 1, ARCH X 493.6 AutoCAD 2, ARCH X 472.12A Grading and Drainage, ARCH X 472.5 Landscape Design 5: Planting Design, and ARCH X 472.12B Irrigation Practices and Water Conservation.

Reg# 376039

Fee: \$925

No refund after 7 Oct.

- ❖ Remote Instruction

11 mtgs

Thursday, 7-10pm, Oct. 1-Dec. 17

Must be taken after or concurrently with X 472.14A Landscape Construction Methods and Materials.

Laptop and AutoCAD required. 🌐

Perla Arquieta, who has worked with Galper/Baldon Associates, Laura Saltzman Associates, Artechco Landscape Architects, KAA Design Group, and, most currently, The County of Los Angeles Parks and Recreation. Ms. Arquieta's body of work includes residential, institutional, commercial, and public projects. She is a member of ASLA.

ARCH X 493.9

Professional Practices in Landscape Architecture

2.0 units

This course covers professional relationships and the rights and responsibilities between parties in the public and private sectors. Instruction emphasizes professional practices and project management, including licensing and consumer protection; setting up and managing a private practice; cost estimating and bid solicitation; contracts and contract documents; liability and insurance; administering projects under construction; and professional ethics.

Prerequisite(s): Completion of year one and two courses.

Reg# 376038

Fee: \$535

No refund after 12 Oct.

- ❖ Remote Instruction

6 mtgs

Tuesday, 7-10pm, Sept. 29-Dec. 8

Class meets every two weeks. 🌐 📖

Paul Lewis, BSLA, LEED AP, landscape architect (CA 3620). He is a LEED Accredited Professional, an allied affiliate member of the American Institute of Architects and a member of the United States Green Building Council.

ARCH X 496.2

Beginning Stormwater Management

2.0 units

Sustainable site planning requires understanding and calculating storm events and designing landscapes to capture, hold, and infiltrate stormwater through landscape designs that focus on several methods, from on-site retention and cisterns to green infrastructure, such as swales. This course showcases unique designs and describes the methods and calculations used to design stormwater BMPs for a site to appropriately accommodate seasonal stormwater within the Southern California region. This course covers the California and City of Los Angeles regulatory requirements for stormwater and provides an overview of stormwater plan design hydrologic/hydraulic concepts, environmental site design, and non-proprietary stormwater BMPs, including critical design elements and typical stormwater plan compliance strategies.

Reg# 376077

Fee: \$535

No refund after 18 Oct.

- ❖ Remote Instruction

6 mtgs

Monday, 7-10pm, Oct. 12-Nov. 16

Elective course in the Landscape Architecture Program.

Recommended that students are familiar with Grading and Drainage practices prior to enrollment. Current Grading and Drainage students are eligible to enroll. 🌐 📖

Matthew Shimer, MLA in landscape architecture from Chatham University in Pittsburgh, Pennsylvania, with a focus on stormwater management. Matthew is a licensed landscape architect in California and has earned a LEED AP credential in sustainable neighborhood development.

ARCH 747

LARE Section 1: An Intensive Review

Designed for students who are preparing to take the Landscape Architects Registration Exam (LARE) Section 1: Project and Construction Administration, this workshop covers the knowledge and skills associated with regulations, contracts, and construction administration processes.

Reg# 376436

Fee: \$337

No refund after 23 Oct.

- ❖ Remote Instruction

1 mtg

Saturday, 8am-5pm, Oct. 24

Early enrollment required. 🌐

Angela Woodward, BSLA, landscape architect (CA 2126) with over 30 years' experience practicing landscape architecture in California and Arizona, Ms. Woodward has specialized in municipality projects and infrastructure projects. Served as past president of the American Society of Landscape Architecture (ASLA), Southern California Chapter.

Horticulture Certificate Curriculum Sequence

Students Can Begin the Program at Any Time

Designed for aspiring horticulturists and for professionals currently working in the landscape industry, the Horticulture Certificate provides the science-based curriculum sought by current industry employers.

The certificate provides a comprehensive approach to horticulture, teaching proper plant care, how to think strategically and holistically in any environment, and how to be successful and competitive within the industry.

Certificate Designed For

- Landscape Professionals
- Master Gardeners
- Industry Professionals
- Garden Designers
- Landscape Contractors

Curriculum

The curriculum consists of 6 core courses and 4 units of program-approved electives. Students are able to finish the certificate in as little as one year. Courses available individually or as part of the certificate.

Core

Spring	Summer	Fall	Winter
General Botany for Gardeners (4 units) Introduction to Irrigation Practices (4 units)	Plant Materials for Landscape Use (4 units)	Horticultural Pest Management (4 units)	Soils and Plant Nutrition (4 units) Plant Taxonomy and Identification (2 units)

* 4 elective units or a program approved internship must be completed before the certificate is awarded.

For More Information

(310) 825-9414 | horticulture.uclaextension.edu

ARCH 748

LARE Section 2: An Intensive Review

Designed for students who are preparing to take the LARE Section 2: Inventory and Analysis, this workshop covers the knowledge and skills related to inventory, data gathering, analysis, programming, regional land use planning, site land use planning, and principles of design.

Reg# 376437

Fee: \$337

No refund after 24 Oct.

- ❖ Remote Instruction

1 mtg

Sunday, 8am-5pm, Oct. 25

Early enrollment required. 🌐

Angela Woodward, BSLA, landscape architect (CA 2126) with over 30 years' experience practicing landscape architecture in California and Arizona. Ms. Woodward has specialized in municipality projects and infrastructure projects. Served as past president of the American Society of Landscape Architecture (ASLA), Southern California Chapter.

ARCH 749

LARE Section 3: An Intensive Review

Designed for students preparing to take LARE Section 3: Design. This workshop covers the knowledge and skills required for site design from principles of design and initial programming through preliminary design stages. Revised exam includes analysis, details, and design materials.

Reg# 376438

Fee: \$337

No refund after 7 Nov.

- ❖ Remote Instruction

1 mtg

Sunday, 8am-5pm, Nov. 8

Students are expected to have basic drafting supplies, trace paper, and a calculator.

Early enrollment required.

Angela Woodward, BSLA, landscape architect (CA 2126) with over 30 years' experience practicing landscape architecture in California and Arizona. Ms. Woodward has specialized in municipality projects and infrastructure projects. Served as past president of the American Society of Landscape Architecture (ASLA), Southern California Chapter.

ARCH 750

LARE Section 4: An Intensive Review

Designed for students preparing to take LARE Section 4: Grading, Draining, and Construction Documentation. This workshop covers the knowledge and skills for preparing plans, including demolition, grading, drainage, planting, and stormwater management. Also covers construction documentation and specifications.

Reg# 376439

Fee: \$588

No refund after 5 Nov.

- ❖ Remote Instruction

2 mtgs

Friday, 12-5pm, Nov. 6

Saturday, 8am-5pm, Nov. 7

Students are expected to have basic drafting supplies, trace paper, and a calculator at each class meeting.

Early enrollment required.

Angela Woodward, BSLA, landscape architect (CA 2126) with over 30 years' experience practicing landscape architecture in California and Arizona. Ms. Woodward has specialized in municipality projects and infrastructure projects. Served as past president of the American Society of Landscape Architecture (ASLA), Southern California Chapter.

Horticulture & Gardening

Enrollment is open to anyone interested in learning the science of horticulture or the common techniques to successful gardening.

For Horticulture Certificate information visit horticulture.uclaextension.edu.

BIOLGY X 496.2

General Botany for Gardeners

4.0 units

This course provides a general introduction to the study of plant structures and functions, emphasizing these aspects as they relate to the natural survival and cultivation of plants. Topics include types and functions of leaves, stems, flowers, and fruits; plant-water relations; basic genetics; ecological tolerances; and an introduction to plant names and groupings. Many of the topics include ample hands-on experience with plants.

Reg# 376073

Fee: \$625

No refund after 4 Oct.

- ❖ Remote Instruction

11 mtgs

Monday, 6:30-9:30pm, Sept. 28-Dec. 7

Core course in Horticulture Certificate. Elective course in the Landscape Architecture Certificate. 🌐 📖

Valerie Wong, PhD, plant and microbial biology. Dr. Wong earned a bachelor's degree in biochemistry from Wellesley College, and her most recent research investigates microbes living inside plants and lichens of the subarctic, through work with the University of Minnesota.

BIOLGY X 498.2

Horticultural Pest Management

4.0 units

This course covers the identification and management of common garden insects, diseases, and weeds. Topics include integrated pest management (IPM) and biological and other non-chemical methods of control, as well as information on available chemicals and safety programs required for their uses.

Reg# 376075

Fee: \$625

No refund after 6 Oct.

- ❖ Remote Instruction

11 mtgs

Wednesday, 7-10pm, Sept. 30-Dec. 16

No meeting Nov. 25. One meeting to be arranged. Core course in Horticulture Certificate. 🌐 📖

Gretchen Renshaw, BS in ornamental horticulture from Cal Poly, San Luis Obispo, horticulturist, horticulture teacher, and director of Manhattan Beach Botanical Garden

BIOLGY X 494

Introduction to Horticulture

4.0 units

Designed for beginners and experienced gardeners, this course covers the basics of garden care and provides the student with the knowledge to solve many of the problems commonly faced in keeping plants healthy. Topics include soils and soil amendments; fertilizers; plant physiology and identification methods; planting, pruning, and staking techniques; turf grasses; plant selection guidelines; and pest and disease control. The course also includes a brief history of horticulture and an introduction to taxonomy. Students are encouraged to bring in plants for identification and discussion. Includes field trips.

Reg# 376074

Fee: \$625

No refund after 5 Oct.

- ❖ Remote Instruction

11 mtgs

Tuesday, 7-10pm, Sept. 29-Dec. 8

Core course in the Gardening Specialization. Elective course in the Landscape Architecture and Horticulture Certificates. 🌐 📖

Gary Jones, chief horticulturist at Armstrong Garden Centers. He has served as a member of the Board of Trustees of The Arboretum of Los Angeles and is a member of the Board of Advisors for Southern California Chapter of The Mediterranean Garden Society.

🌐 ONLINE COURSE, page 5.

📖 HYBRID COURSE, page 5.

🌐 WEB-ENHANCED COURSE, page 5.

❖ REMOTE INSTRUCTION, page 5.

📖 TEXTBOOK REQUIRED

🏠 UC CREDIT, page 6.