

LANDSCAPE ARCHITECTURE, HORTICULTURE & GARDENING

105 Restricted Courses
105 Open-Enrollment Courses
107 Horticulture & Gardening

Free Open House

Sat, Aug 1, 9:30-11:30am,
1010 Westwood Center, Room 320

UCLA Extension's Landscape Architecture Certificate is approved to meet the education requirement for licensure in California.

Highlights include:

- Presentation of the curriculum
- Discussion of career opportunities
- Question-and-answer period
- Talk with instructors, alumni, and current students
- A drawing to win a free course
- \$50 off selected courses for new students



R.S.V.P. by Email or Phone:

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

Landscape Architecture Quarterly Curriculum Sequence

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

Year 1

<i>Fall</i>	<i>Winter</i>	<i>Spring</i>	<i>Summer</i>
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) Landscape History (4 units)

Portfolio Review

Year 2

<i>Fall</i>	<i>Winter</i>	<i>Spring</i>	<i>Summer</i>
Grading & Drainage (4 units) Plant Materials: Trees (4 units)	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 (5 units) Irrigation/Water Conservation (4 units)

Year 3

<i>Fall</i>	<i>Winter</i>	<i>Spring</i>	<i>Summer</i>
Landscape Construction Methods & Materials (4 units) Construction Drawing 1 (4 units)	Human Factors in Landscape Architecture (4 units) Construction Drawing 2 (4 units)	Landscape Design 7: Advanced Design Studio (5 units) Capstone Project Seminar (3 units) Professional Practices in Landscape Architecture (2 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.
- Students who began the program prior to Summer Quarter 2014, have a separate transition sequence and should ask for individual advising.
- Laptop able to run the newest version of AutoCAD and Adobe Design Standard Suite is required before second quarter.

Landscape Architecture

For more information call (310) 825-9414, visit uclaextension.edu/landarch, 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 3 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.

Open-Enrollment Courses

Introduction to the Landscape Design Professions

X 472 Architecture 4 units

Team taught, 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 also are introduced. *Internet access required to retrieve course materials.* 

Reg# 256952CA

Through Jun 1: \$805 / After: \$880

Downtown Los Angeles: 261 S. Figueroa St., Figueroa Courtyard, Suite 100W, Classroom 104

Wed 7-10pm, Jul 1-Sep 9, 12 mtgs
(1 mtg to be arranged)

No refund after Jul 8.

Steve Lang, BLA, landscape architect (CA 1771, NV 461).

Design Graphics 1: Drafting and Drawing of the Built Environment

X 472.4D Architecture 4 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 a real site located in Santa Monica, Tongva Park. 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. *Internet access required to retrieve course materials.* 

Reg# 256592CA

Through May 29: \$805 / After: \$880

Westwood: 314 1010 Westwood Center
Mon 7-10pm, Jun 29-Aug 31, 10 mtgs

No refund after Jul 6.

David W. Squires, MA in Urban Planning and Architecture Design, UCLA; BSLA, Washington State University; master planner; project architect.

History of the Designed Landscape

X 472.6A Architecture 4 units

Formerly History of Landscape Architecture I.

The Landscape Architecture Program's history course comprises the study of the evolution of landscape design through Western civilization. Lectures cover the outstanding examples of landscape garden design and their relationships to art and architecture, as well as the philosophical, social, political, and historical forces that influenced the designed environment. Instruction includes extensive visual materials. *Internet access required to retrieve course materials.*

Reg# 257584CA

Through Jun 1: \$805 / After: \$880

Downtown Los Angeles: 261 S. Figueroa St., Figueroa Courtyard, Suite 100W, Classroom 106

Wed 7-10pm, Jul 1-Sep 9, 12 mtgs
(1 mtg to be arranged)

No refund after Jul 8.

James Edward Becerra, Bachelors of Science in Landscape Architecture Masters in Education

AutoCAD 1

X 493.992 Architecture 4 units

Landscape Architecture certificate students must take this course for unit credit; other students may choose either unit credit or 3.3 continuing education units.

This course introduces students to the fundamentals of AutoCAD as well as how to apply and manage the tool. Students who successfully complete the course acquire a good foundation upon which they may develop the tool further. While instruction is directed toward landscape architecture, those in related disciplines also should find the course valuable. *Prerequisite:* Basic knowledge of computers. *Enrollment limited. Student versions of the software may be downloaded for free upon proof of student status; students must have access to most recent version of AutoCAD software; UCLA Extension computer labs are not available after class. Visitors not permitted. Internet access required to retrieve course materials.* 

Reg# 257582CA

Through Jun 2: \$909 / After: \$1,000

Westwood: 213 UCLA Extension Bldg.
Thu 7-10pm, Jul 2-Sep 10, 12 mtgs
(1 mtg to be arranged)

No refund after Jul 9.

Victor Corona, architect (CA 25767).

Introduction to Drip Irrigation

X 472.12D Architecture 3 units

As irrigation technology becomes more advanced, and water becomes scarcer, appropriate water application for plants is critical. Learn how to design and prepare plans for a residential drip irrigation system. Instruction covers foundation in hydraulic design, efficient drip line layout, appropriate use of backflow prevention devices, water conservation methods and applications, and available new technologies, such as weather station ET based controllers and the application of design principles to comply with the State of California AB-1881 Water Model Efficient Landscape Ordinance. *Prerequisite:* A working knowledge of irrigation and planting design is required. *Elective course in Landscape Architecture and Horticulture and Gardening certificates.*

Reg# 257605CA

Through Jun 9: \$605 / After: \$660

Westwood: 212 Extension Lindbrook Center
Thu 7-10pm, Jul 9-Sep 10, 9 mtgs
(no mtg 9/3)

No refund after Jul 16.

John Tikotsky, Principal, Tikotsky Assoc. Landscape Architects

Sketching and Plant Identification

X 494.65 Architecture 3 units

This course is a supplement and compliment to the core program plant material courses. Formerly Scientific Illustration.

Held at locations in and around the Southern California area, this course is an introduction to scientific illustration and plant identification. Students are introduced to plant taxonomy and terminology. The instructor establishes a plant pallet to be studied for each location. Above all students develop a keen sense of awareness and observation. *Elective course in Landscape Architecture and Horticulture and Gardening. Students must provide their own transportation. Internet access required to retrieve course materials.* 

Reg# 257589CA

Through Jun 12: \$605 / After: \$660

San Gabriel: San Gabriel Nursery & Florist,
632 S. San Gabriel Blvd.

☼ Sun 10am-4pm, Jul 12

By itinerary: Location to be announced

☼ Sun 10am-4pm, Jul 19-Aug 2, 4 mtgs

David W. Squires, MA in Urban Planning and Architecture Design, UCLA; BSLA, Washington State University; master planner; project architect.

The Art of Process

X 471.4 Architecture 2 units

The design process is an evolution that encourages critical thought, innovation, creativity, and continually changes. We define design as an iterative decision-making process that produces solutions which convert materials and spaces into places and systems that meet human needs and wants or solve problems. Design does not follow a linear sequence, and it does not terminate just because a solution has been developed. The design process seeks the BEST solution of many. Instructor Jim Smith, Director of Design for LA County Parks and Recreation, takes you through the iterative design process that will help you produce not just a good design, but a great design. *Visitors not permitted.*

Reg# 257628CA

Through May 30: \$405 / After: \$440

Westwood: 307 1010 Westwood Center
Tue 7-10pm, Jun 30; Jul 14 & 28;
Aug 11 & 25; Sep 8, 6 mtgs

No refund after Jul 14.

Jim Smith, MArch, AIA, architect (CA 14453).

SketchUp for Landscape Architects

X 493.99 Architecture 4 units

This course helps students improve their skills in visual interpretation and presentation of design concepts. Instruction emphasizes technique and program command terminology. The primary application is SketchUp, although supplemental software such as Adobe Photoshop and InDesign are also used to generate presentation products and supporting graphics. Upon completing the course, participants should be able to create 3D models, presentation materials, supporting graphics, and various levels of detail for multiple project phases and/or deliverable product requirements. *Laptop highly recommended. Visitors not permitted. Internet access required to retrieve course materials. Students must purchase Adobe CS and SketchUP* 

Reg# 256703CA

Through Jun 1: \$909 / After: \$1,000

Westwood: 213 UCLA Extension Bldg.
Wed 7-10pm, Jul 1-Sep 9, 12 mtgs
(1 mtg to be arranged)

No refund after Jul 8.

Laura Razo, MLA, project manager/landscape designer

Restricted Courses

These restricted courses are only open to students enrolled in the Landscape Architecture Certificate; visitors are not permitted.

For more information about our completion rates, the median debt of students who have completed the program, and other important information, please visit our certificate page at uclaextension.edu/CF004.

Landscaping Design 3

X 471.2 Architecture 5 units

This course introduces the student to the landscape architectural design process, emphasizing site inventory, analysis, program, and design process and concept development. Projects are mid- to large-scale sites you can actually visit, such as civic plazas, freeway capping projects, downtown urban redevelopment, etc. The design program for each project will be defined by the instructor. Presentation graphics will be both hand-drawn and/or physically built. Students will also use computer modeling, rendering, 3D modeling, InDesign, Sketchup, and Photoshop. Final presentation products will utilize hand graphics with blended use of CAD and 3D modeling as background support only. *Prerequisite:* X 471.1A Landscape Design 1; X 471.1B Landscape Design 2; X 472.4F Design Graphics 3. *Internet access required to retrieve course materials.*

Reg# 257363CA

Through May 30: \$905 / After: \$1,100

Westwood: 304 1010 Westwood Center

Tue 6-10pm, Jun 30-Sep 8, 12 mtgs

(1 mtg to be arranged; 1 field trip date to be arranged at first class)

No refund after Jul 7.

Francisco Behr, BArch, AIA, architect (CA 14634)

Planting Design

X 472.5 Architecture 4 units

In this course, plants and plant groups are studied as basic design elements in the landscape. Instruction emphasizes the arrangement of plant materials for defining, sequencing, and articulating space. Ecological and cultural contexts are examined as determinants for sharply focused design concepts. *Prerequisite:* X 472.19 Design VI: Concept Development and 2 courses from the Plant Materials series (X 472.8A-C). *Visitors not permitted. Internet access required to retrieve course materials.*

Reg# 256704CA

Through May 25: \$805 / After: \$880

Westwood: 314 1010 Westwood Center

Thu 7-10pm, Jun 25-Sep 10, 12 mtgs

No refund after Jul 2.

Stephen Davis, ASLA, landscape architect (CA 1960)



Online course



Not available passed/not passed



Text required



Course held during daytime hours

Summer Highlights



Landscape Architecture

Introduction to the Landscape Design Professions

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

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Introduction to Drip Irrigation

As irrigation technology evolves and advances and water resources become scarcer, appropriate water applications for plants becomes a critical component to our landscapes. Students will learn how to design and prepare plans for a residential drip irrigation system that complies with the State of CA AB-1881 Water Model Efficient Landscape Ordinance.

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Art of Process

The design process is an evolution that encourages critical thought, innovation, and creativity. Students will learn this process and understand the iterative nature of design. Taught by Jim Smith, Director of Design for LA County Parks and Recreation will guide students through the design process and lead you on your way to creating great designs.

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Sketching and Plant Identification

Held at different locations in and around the Southern California area, this course offers students the opportunity to visit unique botanical areas while learning the fundamentals of plant taxonomy and terminology through drawing. Students will learn to hone their skills of observation and awareness.

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Horticulture & Gardening

Advanced Arboricultural Practices

The high economic, environmental and social value of trees in our urban and suburban landscapes demands a basic understanding of best practices related to the long-term management of trees. This course offers a series of lectures and fieldtrips designed to introduce the student to the advanced professional applications of: tree protection and preservation, hazard tree evaluation, tree appraisal, problem diagnosis and tree inventory procedures.

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Container Gardening: Patios, Balconies and Beyond

Outdoor living space can be a unique addition to our living environment, learn how to make it a more inviting and livable space through container gardening. In this course students are introduced to a wide and diverse assortment of plants uniquely adapted to thrive in containers in Southern California. The class offers teacher lead demonstrations as well as hands-on applications.

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The Art and Practice of Pruning

This hands-on course explores the fundamentals of pruning a variety of plants to promote overall health and vigor. Students gain valuable practical experience and knowledge in: dead heading, corrective pruning, espalier and topiary pruning and much, much more. Fieldtrips to local resident's gardens provide the student with unique landscape experiences.

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The Science and Application of Aquaponics

Welcome to the world of Aquaponics! In this 3-day intensive students will learn why aquaponics is a viable option for local food production and also how to make their own system. With an emphasis on developing an applied knowledge base, we will cover the fundamentals so that you gain the confidence to begin your own system at home.

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◇ Design VI: Concept Development

X 472.19 Architecture 4 units

This course explores the use of drawings as tools for visualization and design development. The focus is on developing an ability to use drawings to model and manipulate visual information throughout the various stages of design evolution. Techniques for examining ideas and concept alternatives through composite, perspective, orthographic, and axonometric drawings are explored. Lectures present examples of built projects and methods of recognized professionals which illustrate the dramatic influence drawing type may have on the final form or organization of a design. The course requires intensive drawing time; students must have already mastered basic drafting and sketching skills. *Prerequisite:* X 472.9 Design V: Environmental Analysis and Planning. *Enrollment limited. Materials required at first class: 2 black felt-tip pens, non-photo blue pencil, sharpener, straight edge, architectural scale, drafting tape, and roll of 12" tracing paper. Visitors not permitted. Internet access required to retrieve course materials.*

Reg# 257180CA

Through May 30: \$805 / After: \$880

Westwood: 314 1010 Westwood Center
Tue 7-10pm, Jun 30-Sep 8, 12 mtgs
(1 mtg to be arranged)

Meg Rushing Coffee, MLA, landscape architect (CA 4747).

◇ Advanced Graphics for Landscape Architecture

X 472.35 Architecture 4 units

Students must subscribe to Adobe Creative Cloud (CC); estimated printing costs are \$200.

In preparation for the advanced design sequence, this course reintroduces the rigorous production of graphic images through the design process. Using hand techniques, Photoshop, InDesign, and Creative Cloud, students learn how to assemble, arrange, and modify drawings and images into final presentation boards and books. *Prerequisite:* X 472.9 Design V: Environmental Analysis and Planning. *Laptop recommended. Visitors not permitted. Internet access required to retrieve course materials.*

Reg# 256591CA

Through May 29: \$909 / After: \$1,000

Westwood: 213 UCLA Extension Bldg.
Mon 7-10pm, Jun 29-Aug 31, 10 mtgs
(7/6, 7/13, 7/20, 8/3, 8/10, 8/17 begin one hour earlier at 6 pm)
No refund after Jul 6.

Sheldon Nemoy, alumnus of the office of Charles Eames and honorary member of the Eames Foundation. Mr. Nemoy has worked extensively for major domestic and international clients and is also an author and seminar speaker.

◇ Professional Practices in Landscape Architecture

X 493.9 Architecture 2 units

This course covers professional relationships, 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. *Visitors not permitted. Internet access required to retrieve course materials.*

Reg# 256593CA

Through Jun 2: \$465 / After: \$510

Downtown Los Angeles: 261 S. Figueroa St.,
Figueroa Courtyard, Suite 100W,
Classroom 103
Alternate Thus 7-10pm, Jul 2, 16 & 30;
Aug 13 & 27; Sep 10, 6 mtgs
No refund after Jul 9.

Jim Pickel, BS, landscape architect (CA 4385).

◇ Advanced Design Studio

X 472.8 Architecture 5 units

The Advanced Design Studio is a rehearsal for the rigors of the Capstone Project. The student explores a big idea and creates a program responding to a site (site chosen by instructor). Using the design process and site analysis, the student refines a program, selects goals and objectives, and prepares a design solution and documentation booklet. This course is a required prerequisite to the Capstone Proposal and Capstone Project. *Visitors not permitted. Internet access required to retrieve course materials.*

Reg# 257757CA

Through May 29: \$1,005 / After: \$1,100

Westwood: 406 1010 Westwood Center
Mon 6-10pm, Jun 29-Sep 14, 12 mtgs
(no mtg 9/7; 1 mtg to be arranged)
No refund after Jul 6.

Charles Morris Anderson, MLA

◇ Capstone Project Seminar

X 472.15C Architecture 3 units

The Capstone Project Seminar is the first of the final two courses in the UCLA Extension Landscape Architecture Program. Based upon the preliminary work completed during this quarter, the student will explore a big idea, explore appropriate sites and site analysis and begin the iterative process of developing a program, goals and objectives, a schedule and a written proposal. This course is a required prerequisite to the Capstone Project Studio. *Visitors not permitted. Internet access required to retrieve course materials.*

Reg# 257032CA

Through May 27: \$639 / After: \$700

Westwood: 314 1010 Westwood Center
✿ Sat 12-4pm, Jun 27
✿ Sat 8:30am-12:30pm, Jul 11-Sep 12, 7 mtgs
(no mtg 8/1, 8/15, 8/29 & 9/5)
No refund after Jul 11.

Steve Lang, BLA, landscape architect (CA 1771, NV 461).

Shelley R. Bonus, Session Director and Operator, Mt. Wilson Observatory 60-inch Telescope.

Horticulture & Gardening

These courses are for candidates in the Horticulture and Gardening Certificate as well as anyone with an interest in the field. For certificate information visit uclaextension.edu/landscapearchitecture.

Core Courses

Introduction to Horticulture

X 494 Biology 4 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. *Core course in Horticulture and Gardening Certificate. Visitors not permitted. Internet access required to retrieve course materials.*

Reg# 256624CA

Through May 22: \$505 / After: \$550

2 field trips to be arranged
UCLA: 325 Botany
Mon 6:30-9:30pm, Jun 22-Aug 31, 12 mtgs
(no mtg 8/3; 2 mtgs to be arranged)
No refund after Jul 6.

Darlene A. Pickell, ISA-certified arborist.

Elective Courses

The Art and Practice of Pruning

X 497.30 Biology 2 units

Learn how to maintain the artistry and integrity of good landscape design through a variety of pruning practices. This hands-on course explores the fundamentals of trimming small trees, shrubs, roses, and vines as well as perennials, annuals, and ground covers. Field trips to local residential gardens allow students to gain valuable practical experience in pruning a variety of plants for overall health and vigor. With a few basic tools, students learn the best timing and frequency for dead-heading flowers, cutting back, thinning, corrective pruning, training espaliers, topiaries, and more. *Enrollment limited; enrollment prior to the first class required. Internet access required to retrieve course materials.*

Reg# 257609CA

Through Jun 11: \$355 / After: \$390

UCLA: 325 Botany
✿ Sat 9am-4pm, Jul 11 & 18
Field Trips

Los Angeles: Location to be announced
Sat 9am-12pm, Jul 25-Aug 15, 6 mtgs

Nancy Harrington, landscape contractor (CA 573429)

Container Gardening: Patios, Balconies, and Beyond

X 498.3 Biology 2 units

In our sunny Mediterranean climate, patios and balconies can be an integral part of our living space. In this course, students are introduced to the prolific palette of Southern Californian plants that can be grown in pots, allowing for greenery that works for even the most hectic lifestyle. Through demonstration and practice, discover the pleasures and pitfalls of growing plants in pots, ranging from annual food crops to full-sized trees. Plant combinations, irrigation systems, potting mediums, and materials are covered. Students leave the course able to create a container garden in a range of styles for almost any balcony or patio to enhance a wide variety of living spaces. *Visitors not permitted.*

Reg# 257610CA

Through Jun 28: \$355 / After: \$390

Venice: The Learning Garden at Venice High School, 13000 Venice Blvd.
Tue 6:30-9:30pm, Jul 28-Sep 1, 6 mtgs
No refund after Aug 4.

David King, Gardenmaster/Director, The Learning Garden Foundation.

Advanced Arboricultural Practices

X 492.68 Biology 4 units

The high economic, environmental and social value of trees in our urban and suburban landscapes demands a basic understanding of practices related to the long-term management of trees. This course features a series of lectures, discussions, research and field trips designed to introduce the student to the advanced professional applications of tree protection and preservation, hazard tree evaluation, tree appraisal, problem diagnosis, tree inventory procedures, and urban forestry. Recognized industry standards for professional practices and ethics are also introduced. *Prerequisite:* X 492.67 Basic Arboriculture or approval by instructor. *Visitors not permitted. Internet access required to retrieve course materials.*

Reg# 257607CA

Through May 24: \$505 / After: \$550

UCLA: 325 Botany
Wed 6:30-9:30pm, Jun 24-Sep 2, 12 mtgs
(no mtg 8/5; 2 mtgs to be arranged)
No refund after Jul 1.

Darlene A. Pickell, ISA-certified arborist.

NEW COURSE

The Science and Application of Aquaponics

X 492.4 Biology 2 units

In this three-day intensive Aquaponics class, you not only learn why Aquaponics is the future of local food production but also how to do it yourself. Aquaponics is a soilless food production system that uses fish to provide fertilizer for the plants, while the plants filter the water for the fish. In this closed-loop, symbiotic relationship with edible fish and plants, more food can be grown per square foot than any other method, which makes it well suited for urban farming. Best of all, it uses 95% less water than conventional agriculture and can exceed organic certification standards. With an emphasis on developing an applied knowledge base, we cover the fundamentals of aquaponics. By the end of the course, you will discover a sense of confidence to begin your own system at home. *Enrollment limited; enrollment prior to the first class required.*

Reg# 257284CA

Through Aug 11: \$319 / After: \$350

UCLA: Sunset Village Conference Center
✿ Fri, Sat & Sun 9am-4pm, Sep 11-13, 3 mtgs
David Rosenstein, BA, Earth Science and Sociology

Course Icons Provide Information At-a-Glance

Online course.

Textbook required

Meets during daytime hours.

Credit course may not be taken passed/not passed.