Horticulture Certificate Curriculum Sequence

Students Can Begin the Program at Any Time

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.

BIOLOGY 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.

BIOLOGY 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.

Online Course, page 5.
Hybrid Course, page 5.
Web-Enhanced Course, page 5.
Remote Instruction, page 5.
Textbook Required
UC Credit, page 6.

 remote instruction.

Certificate Designed For
- Landscape Professionals
- Master Gardeners
- Industry Professionals
- Garden Designers
- Landscape Contractors

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: $388
No refund after 5 Nov.
- Remote Instruction
  2 mtgs
  Friday, 12-5pm, Nov. 6
  Saturday, 8-5pm, Nov. 7
Students are expected to have basic drafting supplies, tracer 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.

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 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, 8-5pm, Nov. 8
Students are expected to have basic drafting supplies, tracer 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.

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

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<tr>
<th>Spring</th>
<th>Summer</th>
<th>Fall</th>
<th>Winter</th>
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<tbody>
<tr>
<td>General Botany for Gardeners (4 units)</td>
<td>Plant Materials for Landscape Use (4 units)</td>
<td>Horticultural Pest Management (4 units)</td>
<td>Soils and Plant Nutrition (4 units)</td>
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<tr>
<td>Introduction to Irrigation Practices (4 units)</td>
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<td></td>
<td>Plant Taxonomy and Identification (2 units)</td>
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*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

Enroll at uclaextension.edu or call (800) 825-9971

Landscape Architecture & Horticulture

Enroll at uclaextension.edu or call (800) 825-9971

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

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.

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 for The Arboretum of Los Angeles and is a member of the Board of Advisors for Southern California Chapter of The Mediterranean Garden Society.
**Gardening Practices and Techniques**

Looking for a practical introduction to the basics of home gardening? This course offers students an opportunity to gain knowledge in all areas of successful gardening.

Special consideration is placed on fall garden activities for this time of year. Taught by retired LA Arboretum Supervising Horticulturist, Jill Morganelli, who brings a fun and energetic approach to gardening.

This is a core course in the Gardening Specialization.

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For More Information
horticulture@uclaextension.edu | 310-825-9414

**BIOLOGY X 497.5**

**Gardening Practices and Techniques**

4.0 units

This course offers a practical introduction to the basics of maintaining a home garden. Students gain knowledge in tool selection and care, soil preparation, planting, plant nutrition, and water requirements. Topics include common landscape problems with organic and holistic solutions; our special climate and micro-climates, including sun and shade exposures; various pruning techniques; types of irrigation systems; gardening in containers; and gardening with color including perennials, annuals, and bulbs.

Reg# 376298
- Fee: $625
- No refund after 7 Oct.
- Remote Instruction
- 11 mtgs
- Thursday, 6:30-9:30pm, Oct. 1-Dec. 17
- Core course in the Gardening Specialization. Elective course in the Horticulture Certificate.

Jill Morganelli

**BIOLOGY X 489.6**

**Urban Food Production**

4.0 units

The production, packaging, and transportation of food are large contributors to our global carbon emissions. Throughout the Los Angeles basin, food gardens have sprung up producing local healthy and nutritious fruits and vegetables while contributing energy and financial savings in difficult economic times. Using the history and current practices of growing food in the city as a template, this course explores how urban food gardens can address environmental concerns. Participants are each given a small plot for growing food where they can experiment with new ideas and enjoy their harvest. Topics include fruit trees, vegetables, and berries that do well in our climate as well as often overlooked food-producing perennials. We address pitfalls, challenges, and practical answers to growing food in modern city lots where the “back 40” describes square feet and not acres.

Reg# 376440
- Fee: $625
- No refund after 9 Oct.
- Remote Instruction
- 11 mtgs
- Saturday, 9am-12pm, Oct. 3-Dec. 19
- No meeting Nov. 28.
- Elective course in Horticulture and Sustainability Certificates.

David King, gardener for more than 50 years, specializing in edible plants. A long-standing member of Seed Savers Exchange and the American Community Gardening Association (former board member), he is the founding chair of the Seed Library of Los Angeles.

For More Information
Visit horticulture.uclaextension.edu or call the Horticulture & Gardening program office at (310) 825-9414.