

Merritt College Landscape Horticulture Degree & Certificate Options 2019-2021

Merritt College Landscape Horticulture now has a new Arboriculture program offering two Certificates of Achievement & an Associate of Science degree. This program was designed with input from local tree industry employers, and those employers are looking to hire our grads!

Merritt College is home to one of the largest horticulture facilities in northern California. Our 7.5-acre facility includes 10k sq. ft. of greenhouse and lath house space; drafting & floral design labs; and the Emile Labadie Arboretum. Students on an associate degree track will be able to complete all required coursework within a two-year period, but students are free to work at their own pace. Merritt Landscape Horticulture is a Career Education program, and our programs are designed to equip students with the knowledge and experience needed to be job-ready, and to enhance/refresh the skills of those already working in the field.

One or more certificates or degrees in Landscape Horticulture will be awarded upon satisfactory completion of the program requirements. Graduates and certificate-earners can find employment (including self-employment) in landscape design, landscape construction, parks and garden maintenance, tree care, nurseries, and more. Courses are offered both the day and evening year-round.

A student may petition for a certificate upon satisfactory completion of requirements, or within the semester that final coursework will be completed. To earn an **Associate degree**, students must satisfactorily complete all units required within Landscape/Horticulture major, and must also complete (or have completed at another institution) all AA/AS General Education requirements. See college catalog for detail.

The following Certificates of Achievement (CA), Associate degrees (AS or AA), and one Certificate of Proficiency (CP) are available:

Basic Landscape Horticulture

CA: Basic Horticulture (18 units)

Permaculture

CP: Permaculture Design (17.5 units)

Landscape Design and Construction Track:

CA: Intermediate Landscape Design and Construction

AS: Landscape Design and Construction Specialist*

Landscape and Parks Maintenance Track:

CA: Intermediate Landscape and Parks Maintenance

AS: Landscape and Parks Maintenance Specialist*

Nursery management track:

CA: Intermediate Nursery Management

AS: Nursery Management Specialist*

Arboriculture track

CA: Tree Care Specialist (21 units)

CA: Tree Climber Specialist (41 units)

AS: Arboriculture (41 major + gen. ed.)

Landscape Architecture

AA: Landscape Architecture (40-41 + Gen. Ed.)

BASIC LANDSCAPE HORTICULTURE

Certificate of Achievement:

The **Basic Landscape Horticulture** certificate program is intended for those students who are limited by time constraints to a one-year program. Graduates with this certificate can find employment at the basic or entry level in grounds maintenance or as a park worker or gardener. A **Certificate of Achievement** will be awarded upon satisfactory completion of the certificate requirements specified below.

Note: Students are encouraged to petition for all awards whose requirements they've met, but completion of the Basic Landscape Horticulture certificate is not required to qualify for higher awards.

Note: The LANHT dept. offers tools, guides, and personalized assistance to help students plan towards educational goals. See H107 office or www.merritt.edu/wp/lanht

Program Learning Outcomes:

Students who complete the certificate will be able to:

- Create & maintain landscapes that provide basic human comfort and livability
- Create and maintain landscapes that respect and respond to regional ecology, including plant community dynamics, soil mediums, water and moisture requirements, and sustainable potential in Bay Area environments
- Communicate basic horticulture concepts to clients, contractors, public agencies.

Certificate of Achievement Requirements:

LH 1 (day) OR 1E (eve) Intro to LANHT 3 units

LH 23 Plant Terminology 2.5 units

LH 26 Pruning .5 units

One 3 unit plant ID course:

LH2 or 2E; 3 or 3E; 4 or 4E; 5 A, EA, B or EB; 6A, EA, B or EB; 7 or 7E; 40 or 40E 3 units

One course from following:

LH 13 (day) OR 13E eve Arboriculture 3 units

OR

(old) LH 8 (day) OR 8E (eve) Turf 3 units

(new) LH17 or 17E Irrigation 3 units

One course from following:

LH 10 Insects: ID and Management 3 units

LH 11 Plant Diseases and Their Control 3 units

LH 12 Weeds in the Urban Landscape 3 units

One course from following:

LH 16 Soil Management 3 units

LH 19 Plant Nutrition 3 units

CA Total Required Units:

18

ARBORICULTURE

TREE CARE SPECIALIST

Certificate of Achievement Requirements:

LH 1 (day) OR 1E (eve) Intro to LANHT 3 units

LH 2 (day) OR 2E (eve) Tree ID & Culture 3 units

LH 13 (day) OR 13E (eve) Arboriculture 3 units

LH 23 Plant Terminology 2.5 units

LH 26 Pruning .5 units

LH 80 Urban & Community Forestry 2 units

LH 81 Arborist Equipment Fundamentals 2 units

LH 82 Tree Health Care 2 units

LH 84 Pruning for Urban & Community Forestry 1 unit

LH 85 Intro to Climbing & Aerial Tree Work 2 units

CA Total Required Units:

21

TREE CLIMBER SPECIALIST

Certificate of Achievement Requirements:

(All above) Tree Care Specialist required units: **21 +;**

LH10 Insects 3 units

LH11 Plant Diseases 3 units

LH16 Soil Management 3 units

LH83 Large Equipment Operations for Arborists 3 units

LH86 Applied Aerial Tree Work 2 units

LH87 Advanced Aerial Tree Work 2 units

LH88 Crew Leadership in Arboriculture 1 unit

LH206 Landscape Business Practices 3 units

CA Total Required Units:

41

Associate of Science in Arboriculture

The degree major requirements consist of the same 41 units required for the Tree Climber Specialist Certificate. In addition, students must satisfy the 19-22 unit General Education requirements (see college catalog for description) to achieve the Associate Degree in Arboriculture. Students are not required to complete Gen. Ed. at Merritt College, and may receive credit for coursework completed at other institutions. Students may also substitute coursework within the major from other schools.

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LANDSCAPE DESIGN AND CONSTRUCTION TRACK: Certificate of Achievement

The **Intermediate Landscape Design & Construction** certificate program trains students to work in the field of landscape design/build. The curriculum provides studies in design, construction, plant ID, and basic horticulture, topics that help a student obtain employment in the field, and provide foundational training towards becoming licensed landscape contractors and related specialties.

A **Certificate of Achievement** will be awarded upon satisfactory completion of the certificate requirements specified below.

Program Learning Outcomes:

Students who complete the certificate will be able to:

- Design and build landscapes that provide basic human comfort and livability, and meet client functional and financial needs.
- Design and build landscapes that respond to regional ecology.
- Communicate landscape design concepts to clients, contractors, and public agencies.

Certificate of Achievement Requirements:

LH 1 (day) OR 1E (eve) Intro to LANHT	3 units
LH 14 (day) OR 14E (eve) Landscape Construction	3 units
LH 18A Landscape Design	3 units
LH 18LA Landscape Design Lab	1 unit
LH 18B Landscape Design	3 units
LH 18LB Landscape Design Laboratory	1 unit
LH 23 Plant Terminology	2.5 units
LH 29 (day) Planting Design with Lab	OR
LH 29E (eve) Planting Design	3/4 units

Select two 3 unit plant ID courses*:

LH 2 or 2E Trees; 3 or 3E Groundcovers/Vines; 4 or 4E Shrubs; 5A, 5EA, 5B or 5EB Natives; 6A, 6EA, 6B or 6EB Herbaceous; 7 or 7E Conifers; 40 or 40E Mediterranean 3 units

Select a minimum of 3 units from the following*:

LH 8 (day) or 8E eve Turf ID & Mgmt.	3 units
LH 9A SketchUp Pro I	3 units
LH 13 (day) or 13E eve Arboriculture	3 units
LH 31 Site Operations for Landsc. Des. & Build.	3 units
LH 33A Design Evaluation of Bay Area Landscapes	3 units
LH 34A Computer-Assisted Landscape Design	3 units
LH 35A-B Advanced Landscape Design	3/3 units

Intermediate Certificate Total Required Units: 28.5-29.5

LANDSCAPE DESIGN AND CONSTRUCTION TRACK: Specialist Certificate of Achievement (Major units only) Associate Degree (Major + gen. ed.)

The Landscape Design and Construction Specialist degree and certificate program provides additional training for students interested in working in the field of landscape design/build. The curriculum provides advanced studies in design, plant ID and basic horticulture, and provides foundational training towards working in a design/build firm, and obtaining a landscape contractor's license, irrigation design certification, and related specialties (lighting, water features, water management).

To qualify for the Associate of Science in Landscape Design and Construction Specialist degree, students must satisfactorily complete the Degree Major requirements specified below AND the AA/AS General Education requirements. See the Associate Degrees and Certificates section of the college catalog for information regarding General Education requirements.

Note: Students must satisfactorily complete the Intermediate Landscape Design and Construction certificate requirements to qualify for the Landscape Design and Construction Specialist Associate degree

Program Learning Outcomes:

Students who complete the degree or certificate will be able to:

- Design and build landscapes that provide basic human livability, meet client functional and financial needs, and support community health and well-being.
- Design and build landscapes that respond to regional ecology, and support principles of sustainability.
- Communicate landscape design and building concepts to clients, contractors, and public agencies through electronic media, reports, graphic representation, and spoken presentations.

Degree Major Requirements:

Intermediate Level Landscape Design and Construction Required Units:

28.5-29.5 AND:

Additional Requirements for Degree:

LH 17 (day) OR 17E (eve) Irrigation 3 units

Select one 3 unit plant ID course*:

LH 2 or 2E Trees; 3 or 3E Groundcovers/Vines; 4 or 4E Shrubs; 5A, 5EA, 5B or 5EB Natives; 6A, 6EA, 6B or 6EB Herbaceous; 7 or 7E Conifers; 40 or 40E Mediterranean 3 units

Select a minimum of 6 units from the following*:

LH 8 (day) OR 8E (eve) Turf ID, Culture and Management	3 units
LH 13 (day) OR 13E (eve) Arboriculture	3 units
LH 31 Site Operations for Landscape Designers and Builders	3 units
LH 33A Design Evaluation of Bay Area Landscapes	3 units
LH 34ABC Computer-Assisted Landscape Design	3 units
LH 35A-B Advanced Landscape Design	3 units

Degree Major (only) Total Required Units: 40.5-41.5

*Select course(s) not previously taken.

Recommended:

LH 9A, SketchUp Pro I	3 units
LH 55, History of Gardens and Gardening	3 units
LH 58, CAD Clinic for Landscape Horticulture	1 unit
LH 60ABC, Freehand Drawing for Landsc. Des. I, II, III	3 units
LH 210ABC, Landscape Design Forum I, II, III	3 units

NOTE to all students, current, past, prospective: The LANHT dept. wants you to succeed academically and professionally, and we have many resources on hand to help you as you work toward your goals. As this guide to program requirements is regularly updated to include any recent changes, and to alert you to expected program updates not yet in effect, it may contain info not yet available at the time of the current college catalog's publication.

- Your suggestions, comments, and correction alerts are welcome—please email mbull@peralta.edu, or visit H107.

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LANDSCAPE AND PARKS MAINTENANCE TRACK:

Intermediate: Certificate of Achievement

The **Intermediate Landscape and Parks Maintenance** certificate program trains students to work as grounds or garden maintenance workers in a variety of settings, including public or private parks, golf courses, and commercial or residential gardens. The curriculum provides studies in basic horticulture, plant ID, and maintenance practices. These areas of emphasis can help a student gain employment in the field of landscape and parks maintenance with public works departments, landscape maintenance companies, parks and recreation departments, or to start their own landscape maintenance companies. A **Certificate of Achievement** will be awarded upon satisfactory completion of the certificate requirements specified below.

Note: Although the Intermediate Landscape & Parks Maintenance and the Basic Horticulture certificates require some of the same foundation coursework, the Basic Horticulture award is not required prior to achievement of the Intermediate Parks award.

Program Learning Outcomes:

Students who complete the degree will be able to:

- Design landscapes that provide basic human comfort and livability.
- Design landscapes that respond to and support regional ecology.
- Employ maintenance practices that minimize the use of gas power tools, source material regionally as available, and recycle or compost yard waste to minimize the dumping of green waste.

NEW REQUIREMENTS: New (2019?) Parks & Maintenance certificate/degree requirements: LH 206 Landscape Business Practices will replace LH 201 Landscape Maintenance Practices (certificate req.); LH 17/17E Irrigation will replace LH 8 Turf (degree/cert); LH 81 Arborist Equipment will replace LH 21 Horticultural Equipment (degree req.) Catalog rights: Already on this track? Continuously enrolled students have the option of either current coursework requirements or those in effect at the time their studies began. See page 75, Merritt 2017-19 catalog.

Certificate of Achievement Requirements:

Basic Horticulture Required Units: **18 AND:**

Plus Intermediate Level Requirements:

(old- see above) LH 201 Landscape Maintenance Practices 3 units
(new- see above) LH 206 Landscape Business Practices 3 units

Select one additional course from the following*:

LH 2 or 2E Trees; 3 or 3E Groundcovers/Vines; 4 or 4E Shrubs; 5A, 5EA, 5B or 5EB Natives; 6A, 6EA, 6B or 6EB Herbaceous; 7 or 7E Conifers; 40 or 40E Mediterranean 3 units

Select one additional course from the following*:

LH 10 Insects: ID and Management 3 units
LH 11 Plant Diseases and Their Control 3 units
LH 12 Weeds in the Urban Landscape 3 units

Select one additional course from the following*:

LH 13 (day) OR 13E (eve) Arboriculture 3 units
(old) LH 8 (day) OR 8E (eve) Turf 3 units
(new) LH 17 (day) OR 17E (eve) Irrigation 3 units

Intermediate Certificate Total Required Units: 30

*Select course(s) not previously taken.

LANDSCAPE & PARKS MAINTENANCE TRACK: Specialist Certificate of Achievement (Major units only) Associate Degree (Major + gen. ed.)

The **Landscape and Parks Maintenance Specialist** degree and certificate program provides additional training for students interested in working in the field of landscape and parks maintenance. The curriculum provides advanced studies in horticulture, plant ID and maintenance practices, and provides foundational training towards working for parks & recreation departments, public works, landscape maintenance companies, or for starting their own landscape maintenance business.

To qualify for the **Associate of Science in Landscape and Parks Maintenance Specialist** degree, students must satisfactorily complete the Degree Major requirements specified below AND the AA/AS General Education requirements. See the Associate Degrees and Certificates section of the college catalog for information regarding General Education requirements.

Note: the parks degree requirements includes all intermediate requirements, but a student may petition for the degree without having first been awarded the intermediate certificate, in fact, students may petition for both the degree and the certificate simultaneously. Although some courses may have recommended preliminary requirements, courses without prerequisites may be taken independently or when convenient, or as offered. Some courses may be offered infrequently, and students are encouraged to enroll in such infrequently offered courses when they are available. See page six for course offering projections/tentative scheduling.

Program Learning Outcomes:

Students who complete the degree will be able to:

- Maintain landscapes to maximize for basic human comfort/livability.
- Maintain landscapes to support regional ecology, low water use, and sustainable potential in Bay Area environments.
- Employ maintenance practices that minimize the use of power tools, dumping of green waste, and vehicle use.

Degree Major Requirements:

Intermediate Parks Required Units: **30 AND:**

Additional Requirements for Degree:

(old) LH 21 Hort. Equip. Operation, Maint., Repair 2 units
(new) LH 81 Arborist Equipment Fundamentals 2 units

Select one additional 3 unit course from the following:

LH 2 or 2E Trees; 3 or 3E Groundcovers/Vines; 4 or 4E Shrubs; 5A, 5EA, 5B or 5EB Natives; 6A, 6EA, 6B or 6EB Herbaceous; 7 or 7E Conifers; 40 or 40E Mediterranean 3 units

Select one additional course from the following*:

LH 10 Insects: ID and Management 3 units
LH 11 Plant Diseases and Their Control 3 units
LH 12 Weeds in the Urban Landscape 3 units

Select one additional course from the following*:

LH 16 Soil Management 3 units
LH 19 Plant Nutrition 3 units

Degree Major Total Required Units: 41

*Select course(s) not previously taken.

Recommended:

LH 54, Integrated Pest Management 1 unit

LANHT Dept. Resources: #1 resource: our dedicated faculty & staff - come and talk with us! Ask anything! emails on p. 5 • reference (non-lending) library featuring 4,000+ books with a wide range of subjects related to horticulture field, and further afield; • plan ahead with our tentative class scheduling/upcoming semesters reference sheet (see p. 6 of this doc) & elsewhere • www.merritt.edu/wp/lanht

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NURSERY MANAGEMENT TRACK Intermediate: Certificate of Achievement

The **Intermediate** Nursery Management certificate program provides basic training for working in the wholesale and retail nursery industry. Students will learn growing and maintenance practices, basic nursery propagation, plant media, watering systems, fertilizers, pest and disease control, and plant evaluation. A **Certificate of Achievement** will be awarded upon satisfactory completion of the certificate requirements specified below.

Note: Completion of the Basic Landscape Horticulture certificate is not required to qualify for the Intermediate Landscape & Parks Maintenance certificate. The intermediate certificate includes some of the same requirements to provide the appropriate foundations for this track.

Program Learning Outcomes:

Students who complete the certificate will be able to:

- Perform basic tasks and state-of-the-art ops. of a pro nursery person.
- Identify plants by botanical name and evaluate their suitability for use in private and public landscapes.
- Evaluate plant stock in terms of its regional origins, water-use requirements, and sustainable potential in Bay Area environments.
- Identify individual organisms and apply biological systems including plants, fungi, microorganisms, animals, and people to local gardens.

Certificate of Achievement Requirements:

LH 1 (day) OR 1E (eve) Intro to Hort	3 units
LH 16 Soil Management	3 units
LH 19 Plant Nutrition	3 units
LH 23 Plant Terminology	2.5 units
LH 24 Plant Propagation	3 units
LH 25 Nursery Management	3 units
LH 26 Pruning	.5 units

Select two 3 unit plant ID courses from the following*:

LH 2 or 2E Trees; 3 or 3E Groundcovers/Vines; 4 or 4E Shrubs; 5A, 5EA, 5B or 5EB Natives; 6A, 6EA, 6B or 6EB Herbaceous; 7 or 7E Conifers; 40 or 40E Mediterranean 3 units

Select two courses from the following*:

LH 10 Insects: Identification and Management	3 units
LH 11 Plant Diseases and Their Control	3 units
LH 12 Weeds in the Urban Landscape	3 units

Intermediate Certificate Total Required Units: **30**

*Select course(s) not previously taken.

Substitution Petitions: In certain cases, it may be possible to satisfy program requirements by substituting units from alternate coursework or units completed at other institutions. The total number of units within the major required for the award should be met, although under certain very uncommon circumstances, substitution of units from an alternate discipline may be allowed. Petitions for coursework from another institution, you are required to attach unofficial transcripts and the course description from that college's catalog to your petition (be sure to highlight the pertinent info!). Substitution based on knowledge gained through work or other experience? Substitution of units from alternate coursework within the LANHT major *may* be allowable (see faculty/staff or counselor).

In the details: Pay close attention to listed requirements! Ensure your future: LH9B does not = LH9A! If the listed required coursework specifies only an "A" class (LH9A, 33A, 34A, etc.), yet only LH9B appears on your Peralta transcript, be safe- file a sub petition! More info available at H107 office, or see counseling dept.

NURSERY MANAGEMENT TRACK: Specialist

Certificate of Achievement (Major units only)

Associate Degree (Major + gen. ed.)

The Nursery Management Specialist degree and certificate program provides advanced training for working in the wholesale and retail nursery industry. Students will learn growing and maintenance practices for a wide variety of plant species, advanced propagation techniques, watering systems, basic soil and fertilizer chemistry, pest and disease control, and nursery business operations.

To qualify for the Associate of Science in Nursery Management Specialist degree, students must satisfactorily complete the Degree Major requirements specified below AND the AA/AS General Education requirements. See the Associate Degrees and Certificates section of the college catalog for information regarding General Education requirements.

A Certificate of Achievement will be awarded upon satisfactory completion of the certificate requirements specified below.

Note: Students must satisfactorily complete the Intermediate Nursery Management requirements to qualify for the AS degree.

Program Learning Outcomes:

Students who complete the degree or certificate will be able to:

- Perform state-of-the-art sustainable operations of a professional nursery person in both wholesale and retail nursery operations.
- Demonstrate ability to grow and/or maintain nursery stock including basic nursery propagation, soils, watering systems, fertilizers, pest and disease control, and plant evaluation.
- Demonstrate knowledge of all aspects of nursery management including the basics of financial, site operations, personnel, and marketing aspects.

Degree Major Requirements:

Intermediate Nursery Management Required Units: **30** AND:

Additional Requirements for Degree:

Select one additional course from the following*:

LH 2 or 2E Trees; 3 or 3E Groundcovers/Vines; 4 or 4E Shrubs; 5A, 5EA, 5B or 5EB Natives; 6A, 6EA, 6B or 6EB Herbaceous; 7 or 7E Conifers; 40 or 40E Mediterranean 3 units

Select one additional course from the following*:

LH 10 Insects: ID and Management	3 units
LH 11 Plant Diseases and Their Control	3 units
LH 12 Weeds in the Urban Landscape	3 units

Plus six additional LH elective units (catalog error alert- see left!) 6 units

Degree Major Total Required Units:** **42**

Recommended:

LH52 Plant Propagation	3 units
LH202 Soil Management Lab	.5 units
LH203 Greenhouse Ops and Management	3 units
LH206 Landscape Business Practices	3 units

NOTE: There is an error in the 2017-19 Merritt College Catalog's listed requirements for the Nursery Management degree! ~~LH52 Advanced Propagation & LH206 Landscape Business Practices~~ ARE NOT required courses for the degree; they are merely RECOMMENDED as options for the official "six additional [LH] elective units". The requirements that you see listed above are correct.

NOTE: The 2015-17 college catalog contained a different error* under the Nursery Management degree requirements. The requirements listed above were effective at that time as well. *2015-17 Error: "Three additional classes" Corrected: Three additional units"

Merritt College Landscape Horticulture Degree & Certificate Options 2019-2021

LANDSCAPE ARCHITECTURE TRACK Associate of the Arts Degree (Major + gen. ed.)

The **Landscape Architecture** degree program provides students with the basic foundation and skills to pursue a career or further education in Landscape Architecture. Course topics include design process and principles, site analysis, site planning, planting design, construction, topographic form, graphic representation, computer-assisted design, and professional practice. Students with this degree will fulfill three objectives: Meet the minimum educational requirement to take the California Landscape Architects Registration Exam (LARE); obtain basic skills necessary to start work in a professional landscape design or design-build office; and get basic preparation towards transferring to a four-year or graduate program in landscape architecture.

To qualify for the **Associate of Arts in Landscape Architecture** degree, students must satisfactorily complete the **Degree Major** requirements specified below **AND** the **AA/AS General Education** requirements. See the Associate Degrees and Certificates section of the college catalog for information regarding General Education requirements.

Program Learning Outcomes:

Students who complete the degree will be able to:

- Design landscapes that provide basic human comfort and livability.
- Design landscapes that respond to and support regional ecology.
- Communicate landscape design and building concepts to clients, contractors, and public agencies through written reports, drawings, graphic images, and oral presentations.

Degree Major Requirements:

LH 18A (3 units) & 18LA* (1 unit) (concurrent)	4 units
LH 18B (3 units) & 18LB* (1 unit) (concurrent)	4 units
LH 33A Design Evaluation of Bay Area Landscapes	3 units
LH 35A Advanced Landscape Design	3 units
LH 57 Form and Composition in Landscape Design	3 units
LH 60A Freehand Drawing for Landscape Designers I	3 units
LH 210A Landscape Design Forum I	2 units
Select one course for 3 units from the following:	
LH 29 Planting Design w/ Lab (day) or LH29E (eve)	3/4 units
Select ONE course for 3 units from the following:	
LH 34A Computer-Assisted L. Des. (Vectorworks)	OR
LH 9A SketchUp Pro I	3/3 units
Select one course for 3 units from the following:	
LH 2 (day) OR 2E (eve) Tree ID & Culture	3 units
Select one 3 unit course from the following:	
LH 5A, 5B (or E) Natives OR LH 40 or 40E Med. Plants	3 units
Select one course for 3 units from the following:	
LH 14 (day) OR LH14E (eve) Landscape Construction	3 units
Select one course from the following:	
LH 17 (day) OR 17E (eve) Irrigation	3 units
AA Degree Total Required Units	40-41

*LH 18A/B lecture; LH18LA/LB is Lab; 18LA/B formerly LH22 A/B

PERMACULTURE DESIGN Certificate of Proficiency

The Permaculture Design certificate program is designed to train students to work on the design, maintenance, and harvesting of a ten-year old, one-acre student farm/food forest. Students will also acquire a firm foundation in horticultural basics as well as have the opportunity to round out their ecological gardening skills by taking related classes in mushroom cultivation, beneficial beasts, and natural building.

A Certificate of Proficiency will be awarded upon satisfactory completion of the requirements specified below. The Certificate of Proficiency is not indicated on the student's transcript.

Program Learning Outcomes:

Students who complete the certificate will be able to:

- Create and maintain landscapes that provide basic human comfort and livability
- Create and maintain landscapes that respect and respond to regional ecology, including plant community dynamics, soil mediums, water and moisture requirements, and sustainable potential in Bay Area environments.
- Manage the infrastructure web of social/ecological gardens, including people and plant communities, animal systems, soil generation, solar, and water systems.

Certificate of Proficiency Requirements:

LH 1 (day) OR 1E (eve) Intro to Hort	3 units
LH 23 Plant Terminology	2.5 units
LH 28A & 28B Permaculture Design I & 2	3/3 units

Select a minimum of 6 units* from the following:

LH 18A (3 units) & 18LA* (1 unit) (concurrent)	4 units
LH 18B (3 units) & 18LB* (1 unit) (concurrent)	4 units
LH36A-C Natural Building	3 units
LH45A-C Mushroom Cultivation I, II, III	2 units
LH46 Cycles of Land Use	3 units
LH 54 Integrated Pest Management	1 unit
LH 76 Edible Landscaping	3 units
LH 208A-C Growing/Using Healthful Herbs	2 units
LH 211A-C Beneficial Beasts	2 units
Total Required Units for Certificate	17.5

*Note: Substitution of units from other coursework within the horticulture major may be possible, especially if above courses are not available when you need them, or when other coursework may be more ideally suited to your own permacultural goals. Check at office for more info.

Merritt College Mission Statement: The mission of Merritt College is to enhance the quality of life in the communities we serve by helping students to attain knowledge, master skills, and develop the appreciation, attitudes and values needed to succeed and participate responsibly in a democratic society and a global economy.

For more information contact the LANHT Dept. 510-436-2418

Staff:

Office: mbull@peralta.edu
Grounds: msealund@peralta.edu Dept.
Nursery: nhill@peralta.edu

Faculty:

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Find the details! NOTE: Pay close attention to listed requirements! Insure your future: know that B does not = A! If the award's required coursework shows (example) "LH9A", and only LH9B appears on our Peralta transcript - file a sub-waiver! Degree requirements are being updated, but good idea to always watch for details like this. When in doubt, consider filing a Petition for Substitution! See H107.

Dept. Co-chair, Landscape Design instructor: cgrampp@peralta.edu
Dept. Co-chair, Multi-subject instructor (incl. Arboriculture): lforlin@peralta.edu
FT Instructor, Propagation, Plant ID, and more: lelee@peralta.edu

www.merritt.edu/wp/lanht
AND
www.merrittlandhort.com

This document updated 4/16/19
See errors? Possible errors? Have suggestions? Please send to mbull@peralta.edu

Merritt College Landscape Horticulture Department Projected Class Scheduling 12/5/18

Revised Program Requirements, Non-scheduled Classes, and...

Remember, Everything is subject to change*. Stay current: Watch for news of program updates, schedule changes, opportunities, etc. at: www.merritt.edu/wp/lanht (regularly updated), or look for handouts/postings while on campus at Hort. If you are on an award track and need a class that has been canceled or may not be offered soon, you may be able to substitute other coursework and/or experience (past or present). Learn more about substitution waivers at LANHT office or counseling dept., or see college catalog.

F= Fall, S= Spring, D= Day, E= Evening

*Class schedules **DO** frequently change! Always check online [Passport](#) for schedule updates (**NOT** the pdf of print schedule!)

LH1 Intro to Hort (D [w/ Lab])/LH1E Intro to Hort (E): Every S & F (no summer): LH1: Mon. 10-4 and LH1E: Tues. 6:30- 9:20pm

LH2/2E Trees: S19 Day, S20 E, S21 D

LH3/3E Ground Covers: may be revised or offered in future

LH4/4E Shrubs F19?, F20?

LH5A (D)/5EA (E) Fall Natives: F19 D, F20 E, F21 D

LH5B (D)/5EB (E) Spring Natives: S19 E, F20 E, S21 D

LH6A, 6EA, B, BE Herbaceous Plants: near future

LH7/7E Conifers: rarely offered

LH8/8E Turf*: likely to be revised or deactivated soon. Parks & Maint./Basic Hort track students: See info at bottom of page*

LH9ABC SketchUp Pro: every fall- F18 D, F19 E, F20 D

LH10 Insects: Spring, currently offered only evenings

LH11 Plant Diseases: every fall

LH12 Weeds: S19 Day, possibly S20 E

LH13 (D) or 13E (E) Arboriculture: F18 E, F19 D, F20 E

LH14 (D) or 14E (E) Landscape Construction: F19 E, F20 D, F21 E

LH15 Botany: rarely offered

LH16 Soil Management: F18 D, F19 E, F20 D

LH17 (D) or 17 (E) Irrigation: S19 D, S20 E, S21 D

LH18A/18LA (lab formerly LH22A) Landscape Design lecture/lab: (always Tuesday/Thursday) F19 D, F20 E

LH18B/18LB (lab formerly LH22A) Landscape Design lecture/lab: (always Tuesday/Thursday) S19 E, S20 D, S21 E,

LH19 Plant Nutrition: S19 Eve, S20 Day, S21 Eve

LH21 Hort. Equipment*: not currently offered
Parks & Maintenance track students: See info at bottom of page*

LH23 Plant Terminology: usually evening, but scheduled for S19 day (Tuesdays, 1- 3:20pm, Forliin)

LH24 Plant Propagation: S19 D, S20 E, S21 D

LH25 Nursery Management: F19 E, F21 D

LH26 Pruning: Every Semester: S: last 2 Saturdays of March/
F: last two Saturdays of October. Day, 9am- 5:45pm

LH28ABCD Permaculture: S19 E, F20 D, S21 D

LH29 (D)/29E (E) Planting Design: F18, F19 E, F20 D

LH33 Design Evaluations of Bay Area Landscapes: Spring, Fridays, 10am – 3pm

LH35A Advanced Landscape Design: S19 D, S20 E

LH36 Natural Building: rarely offered (summer)

LH45ABC Mushroom Cultivation Fall, usually Day

LH46 Cycles of Land Use: rarely offered

LH50 Plant Taxonomy: rarely offered

LH52 Special Projects in Plant Propagation F19 D, possibly E

LH54 Integrated Pest Management: F19 E (uncertain)

LH55 History of Gardening: rarely offered

LH56 Regenerative Design: rarely offered (summer)

LH57 Form & Composition: S19 D, S20 E, S21 D

LH60 Freehand Drawing: Fall, Fridays, 10am – 3pm

LH76 Edible Landscaping: Spring, sometimes fall, S19 D

LH77 Crop Production: Spring Day

LH80 Urban & Community Forestry S19 E, S21D

LH81 Arborist Equipment Fundamentals: F18E, F20

LH82 Tree Health Care: S19

LH83 Large Equipment Operations for Arborists: F19

LH84 Pruning for Urban & Community Forestry: S19 D, S21 ?

LH85 Intro to Climbing & Aerial Tree Work: Days, F18, F20

LH86 Applied Aerial Tree Work: S19 D,

LH87 Advanced Aerial Tree Work: Day, S20, S22

LH88 Crew Leadership in Arboriculture: S20, S22

LH201* Maintenance Practices: infrequently offered
Parks & Maintenance track students: See info at bottom of page*

LH204 Floriculture, Greenhouse, Hydroponics: rarely offered

LH206 Landscape Business Practices: F19 D, F20 E

LH208 Growing & Using Healthful Herbs: Every summer

LH210ABC Landscape Design Forum: Fall & Spring, Tuesdays 4-6pm

LH211ABC Beneficial Beasts in the Garden: unfortunately, not on S19 schedule after all, perhaps S20?

LH501 Urban Community Gardening: Every semester, AND in summer. Tues. @ Merritt Hort & Wed. @ Lakeside Park

* Parks & Maintenance (PM below) and/or Basic Hort (BH) track students: Changes to program requirements are: BH & PM degree & cert., Old: LH8/New: LH17 or 17E. For PM, degree & cert, Old: LH21/New: LH81. For PM degree, Old:LH201/New: LH206

Catalog Rights: Students who maintain continuous enrollment may choose to achieve award under either original or revised program requirements.