



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

2020-2021

Annual Program Update

I. Introduction and Directions

The Peralta Community College District has an institutional effectiveness process which consists of the following components: a District-wide Strategic Plan which is updated every six years; Comprehensive Program Reviews which are completed every three years; and Annual Program Updates (APUs) which are completed in non-program review years. While there are individualized Program Review Handbooks for Instructional units, Counseling, CTE, Library Services, Student Services, Administrative units, and District Service Centers, there is one Annual Program Update template for use by everyone at the colleges which is completed in the Fall semester of non-program review years.

The Annual Program Update is intended to primarily focus upon planning and institutional effectiveness by requesting that everyone report upon the progress they are making in attaining the goals (outcomes) and program improvement objectives described in the most recent program review document. The Annual Program Update is therefore a document which reflects continuous quality improvement. The Annual Program Update serves a critical role in the Integrated Planning and Budgeting cycle of the college in that it provides a vehicle in which to identify and request additional resources that support reaching the stated goals (outcomes) and program improvement objectives in the unit's program review.

Throughout this document, the term "program" is used to refer to any of the following institutional structures: discipline, department, program, administrative unit, or unit.

If you have questions regarding data, please contact Nathan Pellegrin, Director of Research

and Planning (npellegrin@peralta.edu).

If you have questions regarding SLOs, PLOs, SAOs or ILOs, please visit the [SLOAC webpage](#), or contact the SLOAC committee member for your division:

Division 1 - Evan Nichols (anichols@peralta.edu)

Division 2 – Laura Forlin (lforlin@peralta.edu)

Division 3 – Heather Casale (hcasale@peralta.edu).

If you have questions regarding the curriculum section, please contact Nghiem Thai (nthai@peralta.edu), chair of the [Curriculum Committee](#).

If you have questions regarding other material in the APU, please contact your Dean or Manager.

This document contains hyperlinks to external documents, spreadsheets, and data dashboards. Some of the links will not work unless you are signed in to Office 365 through the [Peralta Faculty & Staff Portal](#).

You will need the following items in order to complete the Annual Program Update document at the colleges:

- [Program Review or APU document](#) from AY 2019-20.
- [Budget Information](#) for the current and prior fiscal year.
- Any comments or feedback provided during the program review validation process.
- College Goals and Peralta District Goals (see below).
- [Institution Set Standards](#).
- [College 2018 Educational Master Plan Update](#).
- [Guided Pathways Plan](#)
- [Student Equity Plan](#).
- Data drawn from program review dashboards and/or other sources relevant to your department, service area or administrative unit (see below).

Merritt College Institution-Set Standards 2020-2021

Institution-set standards are used to evaluate the quality of the institution as to success with respect to student achievement in relation to the institution's mission. The evaluation of student achievement performance may include different standards for different programs, as established by the institution.

Metric	Definition	Set Standard
Course Completion (Success)	the number of student completions with a grade of C or better divided by the number of student enrollments	66%
Certificates	Number of certificates earned in an academic year	222
Degrees	Number of associate degrees earned in an academic year	322
Transfer	Number of students who transfer to a 4- year college/university	187
Licensure (CE)	Examination pass rates in programs for which students must pass a licensure examination in order to work in their field of study	70%
Employment (CE)	The job placement rate of student completing a degree or certificate in a CE program in the year after graduation.	Macro-Region Employment Rate, by

College Profile

Student Body Demographics

	2017-18	2018-19	2019-20
Annual Unduplicated Count of Students	12,336	12,861	12,130
Gender			
Female	64%	64%	63%
Male	34%	34%	34%
Decline to State/ Unknown	2%	2%	3%
Race/Ethnicity			
American Indian	< 1%	< 1%	< 1%
Asian	19%	20%	19%
Black / African American	23%	23%	22%
Hispanic / Latino	31%	32%	33%
Pacific Islander	1%	< 1%	< 1%
Two or More	5%	6%	5%
Unknown / NR	4%	4%	5%
White	16%	16%	15%
Age			
18 and Under	15%	15%	16%
19-24	35%	35%	35%
25-29	16%	17%	16%
30-34	11%	11%	11%
35-54	17%	17%	17%
55 and Over	6%	6%	5%

Course Success Rates

	2017-18	2018-19	2019-20*
Total Enrollment (Duplicated Count)	33,288	33,637	32,928
Overall Success Rate	70%	70%	68%
Gender			
Female	70%	70%	69%
Male	69%	69%	66%
Decline to State/ Unknown	77%	74%	64%
Race/Ethnicity			
Black/African-American	62%	62%	60%
Asian	81%	80%	81%
Hispanic	68%	68%	64%
Native American	66%	72%	53%
Pacific Islander	61%	71%	63%
Two or More	65%	67%	68%
Unknown	72%	73%	66%
White	78%	78%	75%
Age			
Under 16	83%	91%	84%
16-18	73%	75%	69%
19-24	65%	66%	64%
25-29	70%	69%	68%
30-34	73%	73%	73%
35-54	74%	73%	71%
55-64	74%	71%	66%
65 and Over	77%	77%	60%

**Includes 'EW' grades*

II. Program Overview

Mission Statement **LANDSCAPE HORTICULTURE DEPARTMENT**

Please verify the mission statement for your program. If your program has not created a mission statement, provide details on how your program supports and contributes to the College mission.

The Landscape Horticulture Department's mission is to help students attain knowledge, skills, and broad-based outlooks needed to succeed as professionals, as stewards of the land, and as responsible citizens. To accomplish these goals the department provides open access to educational programs, support services, and community outreach in a rigorous, diverse, and culturally rich learning environment.

Faculty and Staff

List your Faculty and/or Staff. Indicate if they are part-time or full-time. (If names are already listed, they were imported from last year's APU/PR. Add or remove persons as needed to reflect current personnel).

	Faculty/Staff	PT/FT
<p>Full time faculty and staff:</p> <ul style="list-style-type: none"> • Christopher Grampp, faculty • Lawrence Lee, faculty • Laura Forlin, faculty • Maura Sealund, staff • Maril Bull, staff • Nia Hill, staff <p>Part time faculty:</p> <ul style="list-style-type: none"> • Ann Northrup • David McGinnis • Edward Dunbar • Peter Churgel • Mary-Amanda Shlugleit • Niambi Hill • Stewart Winchester • Thomas Branca • Terri McFarland • Gregory Tarver • Eric Folmer • Molly Batchelder 		

<ul style="list-style-type: none">• Allegra Mautner• Lifan Zhang• Martin Cleary• Kingman Lim		
---	--	--

III. Program Goals

In this section, indicate programs goals, the status of each, and how they align with College and District strategic goals. Following are the strategic goals for Peralta CCD and Merritt College.

<u>Peralta District Strategic Goals</u>	
P1.	Advance student access, equity, and success.
P2.	Engage and leverage partners.
P3.	Build programs of distinction.
P4.	Strengthen accountability, innovation, and collaboration.
P5.	Develop and manage resources to advance our mission.

<u>Merritt College Strategic Goals</u>	
M1.	Completion - Increase number of degrees and certificates by 20% over the next 5 years.
M2.	Transfer - Increase transfers to CSU and UC by 6% annually. (Reach approx. 35% in 5 years).
M3.	Time to Completion - Reduce the number of excess units earned by students.
M4.	Employment - Maintain at least 82% of students attaining employment in the field of study.
M5.	Equity - Reduce the achievement gaps for African-American, multiethnic, and male students.

Below are your Program Goals from your most recent Program Review or APU, if available. Indicate whether the goal has been completed (C), is in progress (IP), no longer applicable (NA), or new (NEW). Be sure to state goals which are *measurable* and *time-based*. Indicate which College and District goal your program goal aligns to. If your goal has been completed, what evidence supports completion of this goal? How did you measure the achievement of this goal?

Program Goal	Status (C, IP, NA, NEW)	Applicable College Goal(s)	Applicable District Goal(s)	If completed, describe supporting evidence, including measurements of achievements.
Program goal #1, Assessment: 1. Assess annually a minimum of 1 SLO per regularly taught course 2. Assess PLO's on a three year cycle 3. Align all recently taught	IP	M1	P1 P3 P4	We have assessed 100% of our course SLO's, and 100% of our PLO's, and have aligned all of our PLO's to ILO's during the spring and summer of 2020. We continue to engage in regular campus wide and departmental dialogue around assessment. One of our co-

<p>courses with ILO's</p> <p>4. Continue to engage in campus wide dialogue around assessment.</p>				<p>chairs is the chair of the college SLOAC committee, so is regularly engaged in discussions about all levels of assessment and these discussions continue within our department.</p> <p>*Evidence for the assessment can be found in the assessment portion of the APU</p>
<p>Program Goal #2, Curriculum: Update our classes to reflect current industry practices.</p>	IP	M1 M4	P3	<p>We updated 100% of our programs in 2020.</p> <p>We updated 84% of our courses (118 out of 143 total courses) and will update the remaining 24 courses in 2021 to complete all course updates in the 2 year PR cycle.</p> <p>*Evidence for the updates can be found in the curriculum portion of the APU</p>
<p>Program Goal #3, Instruction: Utilize our 8 acre facility as a teaching laboratory.</p>	IP	M4	P1 P3 P4	
<p>Program Goal #4, Student Success and Student Equity: Promote greater diversity in our classes.</p>	IP	M4 M5	P1	
<p>Program Goal # 5, Professional Development, Institutional and Professional Engagement, and Partnerships:</p> <p>Continue to engage in ongoing professional development opportunities, maintain engagement in institutional efforts, such as committees, presentations and departmental activities, and engagement with our community partners to maintain currency in our discipline.</p>	IP	M4	P2 P3 P4	

IV. Facilities Utilization

Describe your current utilization of facilities, including labs and other space. Confirm previously reported content.

The Landscape Horticulture Department occupies 8 fenced acres (and 3-4 unfenced acres) on the Northwest corner of the Merritt College campus. We have three classrooms that can seat (in total) around 140 students, a main office and a satellite trailer office, around 35 parking spaces, two nursery growing grounds, a Permaculture food forest (about 1 acre), a meadow for classes, events, and gatherings, 6 greenhouses (all part of a single structure), a tool building, several storage sheds, and numerous demonstration gardens.

First and foremost our facility is a teaching laboratory: students use our grounds to learn how to identify and grow trees, shrubs, and groundcovers, build landscape structures, install irrigation systems, propagate plants, work with soils and fertilizers, study and realize permaculture principles, create and build landscape designs, and more. To this extent, student success is closely tied to the funding we get from the college to sustain and develop our grounds.

To ensure student success, we need our facility to mirror the types of uses and technologies that our graduating students are likely to encounter in their jobs. We also use our grounds for public events, such as our twice-yearly plant sale, East Bay Regional Park District and City of Oakland Parks Department employee tours, Tree Care Industry fieldwork, Oakland Unified School District school garden tours, Child Development and Art Department classes and visits, Merritt College Staff functions, tool safety seminars, and more.

Our facility is currently in the redesign phase, with construction of new classrooms, offices, student areas, greenhouses, headhouse, tool room, parking, signage, utilities, and adjacent landscape areas slated to begin in January 2022. During construction we will relocate to portable buildings on the main campus. This move, while unavoidable, will place a serious stress on our program as we will have limited access to the grounds that are so important to many of our classes.

One of our main tasks in the next 14 months will be planning ways to compensate for our lack of a usable facility. We will also address our relocation needs in the Resource Request section of this APU, as many needs will arise that ordinarily would not factor into our requests.

V. Program Update Data

In this section you will review and reflect upon the data for your program. Use data which measure performance on outcomes relevant to the mission and goals of your program, which will vary according to which area of the college your program is in.

In your response, refer to data applicable to your program obtained from the APU dashboards and/or other sources.

APU Data Dashboards:

- [Course Completion and Retention Rates Dashboard – Instruction](#)
- [Course Completion and Retention Rates Dashboard – Student Services](#)
- [Enrollment Trend and Productivity Dashboard](#)
- [Degrees and Certificates Dashboard](#)

For departments or programs in the Student Services area, refer to reports provided by institutional data systems (i.e., PeopleSoft or SARS), results of student surveys, or external reports (i.e. [IPEDS](#) or [Launchboard](#)). Include the number of students served over an academic year and summarize their demographics.

For departments in the Business and Operations areas, use data which track the key function provided to the College, such as facilities usage for events, tickets received and closed, the number of invoices process or the time to disbursement.

Use historical data (3 years is recommended, if available) to estimate a baseline, then use this to project activity and inform requests for the coming year.

Describe any significant changes and discuss what the changes mean to your program. Consider whether performance or service gaps exist for disproportionality impacted students. Focus upon the most recent year and/or the years since your last comprehensive program review. Cite data points from the program review dashboards or other data sources relevant to your service, business, operations or administrative area to support your answer. If you wish, you may include screenshots of the dashboard to show filtered results containing the relevant figures. Instructions on taking screenshots for [Windows](#) and [Mac](#))

Landscape Horticulture enrollments have basically remained steady for the past three years, averaging 1,356 per year. As we reported last year, evidence from student feedback, statewide Community College trends, and Department of Labor stats strongly suggest that the main reason for the decline: when the economy heats up, Landscape Horticulture enrollments -- like those in most CTE programs -- decline, as students or potential students are pulled into the workforce. While one of our sources for this observation is large-scale data, we have also
--

continually heard from our students –approximately 60% of whom are employed according to our in-house data (which we collect at the beginning of each class)–that they are having to choose between work and school, with the former often winning out.

Our completion and retention rates are above college rates over the past three years (completion of 76.3% versus 68.77% , and retention: 85.33% versus 84.8%). Our theory behind this difference is that while the majority of students in general across the district are in the 19-24 age range, the majority of landscape horticulture students are in the 35-54 age range. The most are career-change students, and in our experience, especially fervent in their educational goals.

Our degree and certificate numbers have remained constant over the past three years, averaging 48/year. We would like to see this number rise –even double –but at least until last spring we were thwarted by the hot economy and student tendency to take one or two classes relevant to their work rather than fill out a full schedule. We distribute documents which make degrees and certificate paths clear, and encourage students to apply for awards, and work with many students each semester to plan coursework leading to graduation.

Here are the numbers:

year	enrollments	completion	retention	Merritt (com/ret)
2017-18:	1238	74.1%	84.5%	69.8/82.7
2018-19:	1473	74.5%	83.2%	68.8/82.8
2019-20:	1357	80.4%	88.3%	67.7/88.9

Degrees and certificates

2017-18: 48
 2018-19: 49
 2019-20: 46

Describe the program’s progress on Service Area Outcomes and/or Administrative Unit Outcomes (AUOs) since the last Program Review or APU. For instructional programs, describe the program's progress on Student Learning Outcomes (SLOs) and, if your discipline offers a degree or certificate, please describe the department's progress on Program Learning Outcomes (PLOs).

We have assessed all of our department's PLO's since our last APU in 2019. Please see the attached links to our PLO assessment evidence:

1. https://docs.google.com/document/d/1VqzUN5l8zEblADUnZ2RIMzyEca6nEWno0_cirVXRyWc/edit?usp=sharing

2. <https://docs.google.com/document/d/1EGY3YD5UqHcece4bcMlCo9vOfBrCm8IKZjOpEGVVzo/edit?usp=sharing>
3. <https://docs.google.com/document/d/1diMkwlobViORnhrys1PBdNaDsNd9bsX7w1g19aVHEV0/edit?usp=sharing>
4. <https://docs.google.com/document/d/17BpJKFLe64FugQdnMEYjxbg-0dvY-H6vbqnVKEV94RQ/edit?usp=sharing>
5. <https://docs.google.com/document/d/1b8oRcDzQamWAwfJ3zV5U11aal6pkd2AMRXroFJhrhJ4/edit?usp=sharing>
6. https://docs.google.com/document/d/12Av7Qz2npmVPAh-Y1NSb_QBXf2TYSf7ABJ9Yb2QxMJY/edit?usp=sharing
7. <https://docs.google.com/document/d/13pH0jA50rFbOaAz6RwcPze7-3t0yiy5xtF81K8v6c8/edit?usp=sharing>
8. https://docs.google.com/document/d/1JrN2ulfg_VZ8qWUyIkSA3_5pk0Lo3zbSENo8HI3C-Ow/edit?usp=sharing
9. https://docs.google.com/document/d/1hj5axJCm dw_iAsHv8fH9za3KgCgblsRXcTJbFLAd b2M/edit?usp=sharing
10. https://docs.google.com/document/d/18U_THcAJRpZzpgtP71ayNIJ0kbRb71VafHRxmNqjTE/edit?usp=sharing
11. <https://docs.google.com/document/d/1vCyukXYEdale-BZPrZHHtxFIMJtx3evKaBGKMuhq-Sl/edit?usp=sharing>
12. https://docs.google.com/document/d/1cN9gpBD3OTSB5UHviKbvj8aFDln0AUml7Y3r-b_7y0s/edit?usp=sharing
13. <https://docs.google.com/document/d/1tHDI0SzLC8PERnL32oLOxTS4JXk3-Mqb49wSUvEiQ3A/edit?usp=sharing>
14. https://docs.google.com/document/d/12iJKJKOJjkBBRFjLR49NK6BaL_epNXXtjP5tb0LlmeI/edit?usp=sharing
15. <https://docs.google.com/document/d/1irYuYc7Lqv1OCiHrF10vgknOsJb-ugUF0yeq1q7vdg/edit?usp=sharing>

Describe the **results of** your department/program/service assessment of student and Program Learning Outcomes/AUO/SAO. Indicate when and where dialogue is occurring. Discuss **changes/updates/resource requests** made to your program based on the assessment of outcomes of the SLOs/PLOs/SAOs/AUOs assessed in the past year and discuss their alignment with the ILOs.

See documentation in previous question. All of the documentation regarding results of our department's PLO, SLO and ILO alignment are found within the documents provided. Additionally, see the link below for our SLO completion data:
https://docs.google.com/spreadsheets/d/1UWsWqNIX5MnKcGoX6Cp9GW_9_ukQ7dmhurMK-LEh0GU/edit#gid=462488737

The following item is for instructional programs only

Discuss how your PLOs align with the ILOs.

Discussion of PLO alignment to ILO's can be found in the links below:

1. https://docs.google.com/document/d/1VqzUN5I8zEblADUnZ2RIMzyEca6nEWno0_cirVXR

2. <https://docs.google.com/document/d/1EGY3YD5UqHcece4bcMlCo9vOfBrCm8lKzjOpEGVVzo/edit?usp=sharing>
3. <https://docs.google.com/document/d/1diMkwlobViORnhrys1PBdNqDsNd9bsX7w1g19aVHEV0/edit?usp=sharing>
4. <https://docs.google.com/document/d/17BpJKFLe64FugQdnMEYjxbg-0dvY-H6vbanVKEV94RQ/edit?usp=sharing>
5. <https://docs.google.com/document/d/1b8oRcDzQamWAwfJ3zV5U11aal6pkd2AMRXroFJhrhJ4/edit?usp=sharing>
6. https://docs.google.com/document/d/12Av7Qz2npmVPAh-Y1NSb_QBXf2TYSf7ABJ9Yb2QxMJY/edit?usp=sharing
7. <https://docs.google.com/document/d/13pH0jA50rFbOaAz6RwcPze7-3t0yiy5xtF81K8v6c8/edit?usp=sharing>
8. https://docs.google.com/document/d/1JrN2ulfg_VZ8qWUyIkSA3_5pk0Lo3zbSENo8HI3C-Ow/edit?usp=sharing
9. https://docs.google.com/document/d/1hj5axJCm dw_iAsHv8fH9za3KgCqblsRXcTJbfLAd b2M/edit?usp=sharing
10. https://docs.google.com/document/d/18U_THcAJRpZzpgtP71ayNIJ0kbRb71VafHRxmNqjTE/edit?usp=sharing
11. <https://docs.google.com/document/d/1vCyukXYEdale-BZPrZHHtxFIMJtx3evKaBGKMuhq-Sl/edit?usp=sharing>
12. https://docs.google.com/document/d/1cN9gpBD3OTSB5UHviKbvj8aFDln0AUml7Y3r-b_7y0s/edit?usp=sharing
13. <https://docs.google.com/document/d/1tHDl0SzLC8PERnL32oL0xTS4JXk3-Mqb49wSUvEiQ3A/edit?usp=sharing>
14. https://docs.google.com/document/d/12iJKJKOJjkBBRFjLR49NK6BaL_epNXXtjP5tb0LmEI/edit?usp=sharing
15. <https://docs.google.com/document/d/1irYuYc7Lqv1OCiHrF10vgknOsJb-ugUF0yeq1q7vdg/edit?usp=sharing>

VI. Curriculum

Note: If your department, program, or unit does not have a curricular component, please skip to the Section VII.

Curriculum review is an integral part of the program review process. Instructional departments and programs must consider the state of their curricula (i.e., courses, certificates, and degrees) in order to engage in meaningful assessment, planning, and continuous quality improvement.

In accordance with the [State Chancellor's Office Program and Course Approval Handbook \(7th Edition\)](#), California community college curricula must meet five criteria:

1. Appropriateness to the mission of the California Community Colleges (as established in [California Education Code § 66010.4](#))
2. Community, service area, or student need

3. Adherence to accreditation and higher education standards
4. Availability of adequate resources to maintain the course or program (including offering all required courses for a program at least once every two years)
5. Compliance with federal and state statutes and regulations (notably Title 5 of the California Code of Regulations)

PCCD [Board Policy 4020](#) and [Administrative Procedure 4020](#) require that curricula be evaluated regularly through program review and annual program updates on a three-year cycle. For Career Education programs, however, this policy is superseded by [California Education Code § 78016\(a\)](#), which requires reviews every two years.

This section of the APU requests information about the status of course and program updates, improvement plans based on curriculum review, and prospective curriculum development. The Curriculum Committee shall evaluate the responses as part of the validation of APU completion and the prioritization of resource requests.

Curriculum Review

Consult [CurriQunet](#) and the [Course Curriculum Review Status](#) or [Program Curriculum Review Status](#) spreadsheets to determine when a course or program was last updated or deactivated.

Courses that have not been offered in the past three years should be deactivated to ensure that the college catalog presents a current and accurate inventory of actual course offerings at Merritt. Likewise, if certificates and degrees have not been awarded in recent years, or the required courses have not been offered regularly enough for students to complete, consider the relevance and viability of those programs for potential deactivation.

Modifications

Indicate courses reviewed/updated in the past academic year (2019-2020), following the example in red. Add additional rows as needed in the table below.

Dept. Code	Course Number	Course Title	Reviewer
LANHT	001	Introduction to Landscape Horticulture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	001E	Introduction to Landscape Horticulture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	002	Plant Materials: Tree ID and Culture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	002E	Plant Materials: Tree ID and Culture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee

LANHT	003	Plant Materials: Ground Covers and Vines ID and Culture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	003E	Plant Materials: Ground Covers and Vines ID and Culture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	004	Plant Materials: Shrubs ID and Culture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	004E	Plant Materials: Shrubs ID and Culture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	005A	Plant Materials: Fall Native Plant ID and Culture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	005B	Plant Materials: Spring Native Plant ID and Culture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	005EA	Plant Materials: Fall Native Plant ID and Culture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	005EB	Plant Materials: Spring Native Plant ID and Culture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	008	Turf ID, Culture and Management with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	005B	Plant Materials: Spring Native Plant ID and Culture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	005EA	Plant Materials: Fall Native Plant ID and Culture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	005EB	Plant Materials: Spring Native Plant ID and Culture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	008	Turf ID, Culture and Management with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	008E	Turf ID, Culture and Management (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	009ABC	SketchUp Pro I, II, III	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	010	Insect Pests	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	011	Plant Diseases and Their	Laura Forlin, Chris Grampp &

		Management	Lawrence Lee
LANHT	012	Weeds in the Urban Landscape	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	013	Arboriculture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	013E	Arboriculture (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	014	Landscape Construction with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	014E	Landscape Construction (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	016	Soil Management	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	017	Irrigation with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	017E	Irrigation (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	018A	Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	018B	Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	018LA	Landscape Design Laboratory	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	019	Plant Nutrition	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	023	Plant Terminology	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	024	Plant Propagation	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	025	Nursery Management	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	026	Pruning	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028A	Permaculture Design I	Laura Forlin, Chris Grampp & Lawrence Lee

LANHT	028B	Permaculture Design II	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028C	Permaculture Design III	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028D	Permaculture Design IV	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	029	Planting Design with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	029E	Planting Design (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	014E	Landscape Construction (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	016	Soil Management	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	017	Irrigation with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	017E	Irrigation (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	018A	Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	018B	Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	018LA	Landscape Design Laboratory	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	019	Plant Nutrition	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	023	Plant Terminology	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	024	Plant Propagation	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	025	Nursery Management	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	026	Pruning	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028A	Permaculture Design I	Laura Forlin, Chris Grampp & Lawrence Lee

LANHT	028B	Permaculture Design II	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028C	Permaculture Design III	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028D	Permaculture Design IV	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	029	Planting Design with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	029E	Planting Design (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	031	Site Operations for Landscape Designers and Builders	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	033A	Design Evaluation of Bay Area Landscapes	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	033B	Design Evaluation of Bay Area Landscapes	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	034A	Computer-Assisted Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	034B	Computer-Assisted Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	034C	Computer-Assisted Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	035A	Advanced Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	023	Plant Terminology	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	024	Plant Propagation	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	025	Nursery Management	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	026	Pruning	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028A	Permaculture Design I	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028B	Permaculture Design II	Laura Forlin, Chris Grampp & Lawrence Lee

LANHT	028C	Permaculture Design III	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	028D	Permaculture Design IV	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	029	Planting Design with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	029E	Planting Design (Evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	031	Site Operations for Landscape Designers and Builders	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	033A	Design Evaluation of Bay Area Landscapes	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	034A	Computer-Assisted Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	034B	Computer-Assisted Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	034C	Computer-Assisted Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	035A	Advanced Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	035B	Advanced Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	036A	Natural Building	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	036B	Natural Building	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	036C	Natural Building	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	040	Plant Materials: Mediterranean, South African and Australian Plant ID and Culture with Lab (Day)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	040E	Plant Materials: Mediterranean, South African and Australian Plant ID and Culture (evening)	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	045A	Mushroom Cultivation I	Laura Forlin, Chris Grampp & Lawrence Lee

LANHT	045B	Mushroom Cultivation II	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	045C	Mushroom Cultivation III	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	049	Independent Study in Landscape Horticulture	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	050	Plant Taxonomy	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	052	Special Projects in Plant Propagation	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	053	Alpines Lab	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	055	History of Gardens and Gardening	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	057	Form and Composition in Landscape Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	060A	Freehand Drawing for Landscape Designers I	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	064	Sketching the Cultural Landscape	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	076	Edible Landscaping	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	077	Crop Production, Marketing and Sales	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	201	Landscape Maintenance Practices	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	206	Landscape Business Practices	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	207	Special Projects in Landscape Horticulture	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	208A	Growing and Using Herbs in the Landscape I	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	211A	Beneficial Beasts in the Garden	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	501	Urban Community Garden	Laura Forlin, Chris Grampp & Lawrence Lee

LANHT	800	Introduction to Aesthetic Pruning	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	801	The Art of Pruning Deciduous Trees and Shrubs	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	804	Pruning Flowering Trees and Shrubs	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	805	Rock Placement in the Landscape	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	810	Pruning Maples	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	811A	Pruning Pines	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	812	The Art of the Focal Point Tree	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	815	Pruning for the Big Picture	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	816	Pruning Container Trees and Shrubs	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	817	Pruning Japanese Gardens	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	818	Pruning Conifers	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	819	The Art of Tree and Shrub Reduction and Correction	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	823	Aesthetic Pruning as a Career	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	825	Introduction to Floral Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	825A	Introduction to Floral Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	830	Flowers and Personality	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	831	Pruning California Native Trees & Shrubs	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	834	Creative Celebrations – Party Work	Laura Forlin, Chris Grampp & Lawrence Lee

LANHT	838	Creative Centerpieces	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	839A	Introduction to Bonsai	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	840	Cultivating Cannabis for the Home Gardener	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	842	Wedding Bouquets II	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	843	Gardening with Children	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	844	Culinary and Herbal Mushrooms	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	845	Designing and creating your own meditation space in the garden	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	846	Mushroom Aesthetics	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	847	Mushroom Foraging	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	848OT	Filoli Estate Gardens	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	848OU	UC Santa Cruz Arboretum	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	848OW	The Art of the Wisteria	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	848OX	Rock Placement in the Landscape	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	848OY	The Art of the Lace Leaf Maple	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	848OZ	Japanese Garden Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	848PA	Pruning Deciduous Fruit Trees	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	848PB	Grafting for the Home Fruit Orchard	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	849	Horticultural Therapy	Laura Forlin, Chris Grampp & Lawrence Lee

LANHT	850	Outdoor Mushroom Cultivation Techniques	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	856	Growing Roses	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	859	Edible Forest Gardening	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	860	Backyard Nurseries	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	881	The Art of the Wisteria	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	883	Growing and Cooking Your Own Culturally-Diverse Edibles	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	884	Sustainable Landscaping	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	885	From Garden to Table	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	886	History of Gardens and Gardening	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	887	Wedding Decorations	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	888	Growing California Native Shrubs	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	889	Using Stone in the Garden	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	889L	Using Stone in the Garden Lab	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	890	Japanese Garden Design	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	891	The Art of the Lace Leaf Maple	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	892	Summer Pruning of Deciduous Fruit Trees	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	893	Young Tree Training: Pruning for Structure and Form	Laura Forlin, Chris Grampp & Lawrence Lee
LANHT	894A-D	Arborist Exam Study and Arboriculture Continuing	Laura Forlin, Chris Grampp & Lawrence Lee

		Education	
LANHT	896	Ethnobotany	Laura Forlin, Chris Grampp & Lawrence Lee

Indicate programs reviewed/updated in the past academic year (2019-2020), following the example in red. Add additional rows as needed in the table below.

Program Title	Program Type	Reviewer
Basic Landscape Horticulture	Certificate of Achievement	Laura Forlin & Lawrence Lee
Intermediate Landscape And Parks Maintenance	Certificate of Achievement	Laura Forlin
Intermediate Nursery Management	Certificate of Achievement	Lawrence Lee
Landscape And Parks Maintenance Specialist	AS Degree	Laura Forlin
Landscape Design and Construction Specialist	AS Degree	Chris Grampp
Landscape Architecture	AA Degree	Chris Grampp
Nursery Management Specialist	AS Degree	Lawrence Lee

Deactivations

Indicate courses deactivated in the past academic year (2019-2020), following the example in red. Add additional rows as needed in the table below.

Course Number	Course Title	Reviewer
003	Plant Materials: Ground Covers and Vines ID and Culture with Lab (Day)	Laura Forlin, L. Lee & Chris Grampp
003E	Plant Materials: Ground Covers and Vines ID and Culture (Evening)	Laura Forlin, L. Lee & Chris Grampp
006A	Plant Materials: Fall Herbaceous Plant ID and Culture with Lab (Day)	Laura Forlin, L. Lee & Chris Grampp
006B	Plant Materials: Spring Herbaceous Plant ID and Culture with Lab (Day)	Laura Forlin, L. Lee & Chris Grampp
006EA	Plant Materials: Fall Herbaceous Plant ID and Culture (Evening)	Laura Forlin, L. Lee & Chris Grampp
006EB	Plant Materials: Spring Herbaceous Plant ID and Culture (Evening)	Laura Forlin, L. Lee & Chris Grampp
007	Plant Materials: Conifer ID and Culture with Lab (Day)	Laura Forlin, L. Lee & Chris Grampp
007E	Plant Materials: Conifer ID and Culture (Evening)	Laura Forlin, L. Lee & Chris Grampp
15	Botany for Horticulture	Laura Forlin, L. Lee & Chris Grampp
021	Horticultural Equipment Operation, Maintenance and Repair	Laura Forlin, L. Lee & Chris Grampp
031	Site Operations for Landscape Designers and Builders	Laura Forlin, L. Lee & Chris Grampp
046	Cycles of Land Use: East Bay Field Studies and Interpretation	Laura Forlin, L. Lee & Chris Grampp
048OU	Horticultural Hydroponics	Laura Forlin, L. Lee & Chris Grampp
051ABCD	Natural Landscape Interpretation	Laura Forlin, L. Lee & Chris Grampp
054	Integrated Pest Management	Laura Forlin, L. Lee & Chris Grampp
204	Floriculture, Greenhouse Production and Hydroponics	Laura Forlin, L. Lee & Chris Grampp
748NA	Introductory Skills in Landscape Horticulture	Laura Forlin, L. Lee & Chris Grampp

813	Designing with Ornamental Grasses	Laura Forlin, L. Lee & Chris Grampp
814	Plant ID: Ornamentals Grasses ID and Culture	Laura Forlin, L. Lee & Chris Grampp
827	Bamboo Basics for the Bay Area	Laura Forlin, L. Lee & Chris Grampp
828	Rainwater Harvesting	Laura Forlin, L. Lee & Chris Grampp
829	Seed Saving for Gardeners	Laura Forlin, L. Lee & Chris Grampp
843	Gardening with Children	Laura Forlin, L. Lee & Chris Grampp
844	Culinary and Herbal Mushrooms	Laura Forlin, L. Lee & Chris Grampp
845	Designing and creating your own meditation space in the garden	Laura Forlin, L. Lee & Chris Grampp
846	Mushroom Aesthetics	Laura Forlin, L. Lee & Chris Grampp
847	Mushroom Foraging	Laura Forlin, L. Lee & Chris Grampp
848OT	Filoli Estate Gardens	Laura Forlin, L. Lee & Chris Grampp
848OU	UC Santa Cruz Arboretum	Laura Forlin, L. Lee & Chris Grampp
848OW	The Art of the Wisteria	Laura Forlin, L. Lee & Chris Grampp
848OX	Rock Placement in the Landscape	Laura Forlin, L. Lee & Chris Grampp
848OY	The Art of the Lace Leaf Maple	Laura Forlin, L. Lee & Chris Grampp
848OZ	Japanese Garden Design	Laura Forlin, L. Lee & Chris Grampp
849	Horticultural Therapy	Laura Forlin, L. Lee & Chris Grampp
850	Outdoor Mushroom Cultivation Techniques	Laura Forlin, L. Lee & Chris Grampp
856	Growing Roses	Laura Forlin, L. Lee & Chris Grampp
859	Edible Forest Gardening	Laura Forlin,

		L. Lee & Chris Grampp
860	Backyard Nurseries	Laura Forlin, L. Lee & Chris Grampp
883	Growing and Cooking Your Own Culturally-Diverse Edibles	Laura Forlin, L. Lee & Chris Grampp
884	Sustainable Landscaping	Laura Forlin, L. Lee & Chris Grampp
885	From Garden to Table	Laura Forlin, L. Lee & Chris Grampp
886	History of Gardens and Gardening	Laura Forlin, L. Lee & Chris Grampp
887	Wedding Decorations	Laura Forlin, L. Lee & Chris Grampp
888	Growing California Native Shrubs	Laura Forlin, L. Lee & Chris Grampp
893	Young Tree Training: Pruning for Structure and Form	Laura Forlin, L. Lee & Chris Grampp
896	Ethnobotany	Laura Forlin, L. Lee & Chris Grampp

Indicate programs deactivated in the past academic year (2019-2020), following the example in red. Add additional rows as needed in the table below.

Program Title	Program Type	Reviewer
None - N/A		

Curriculum Improvement

Based on ongoing curriculum review, describe plans for **program-level** improvement in terms of any of the following considerations:

- Advancing **student equity and achievement** for disproportionately impacted students.
- Fostering **intersegmental alignment** and **guided pathways** through articulation, course sequencing, and program mapping.
- Implementing innovative **pedagogies, delivery methods/modalities**, or **educational resources and technologies**.

Based on our curriculum review of our programs, we have incorporated innovative modalities, including use of new virtual technologies like zoom, canvas and google to enhance student engagement and success. We are also using virtual digital presentations to engage students in real time.

Curriculum Development

Indicate new courses to be proposed and/or historical courses to be reactivated within the next academic year (2021-2022), following the example in red. Add additional rows as needed in the table below.

Title	Description	Justification	Anticipated Effective Term
LANHT 840	This fee-based course covers best practices for the cannabis home gardener for recreational use: Outdoor and greenhouse cultivation in soil or containers.	Industry and public demand.	Fall 2020
3-4 academic Cannabis courses leading to a Certificate of Achievement	Cannabis courses to cover specific focus areas (developed in conjunction with industry partners) and leading to a certificate of achievement.	There is a quickly growing workforce need in the Cannabis Industry and employers are seeking skilled workers.	Fall 2021

Indicate new programs slated for development within the next academic year (2021-2022), following the example in red. Add additional rows as needed in the table below.

Title	Description	Justification	Anticipated Effective Term
TBD - Certificate of Achievement in Cannabis Cultivation and	A 16 unit Certificate of Achievement focused on skills needed to enter the	potential employment opportunities and growth and necessary skills for	Fall 2021

Practices	Cannabis Industry.	employment	
-----------	--------------------	------------	--

The Curriculum Committee shall prioritize the review and approval of new courses and programs that are identified in this section of the APU.

VIII. Resource Requests

In the tables below, please add resource requests for your program for the **2021-22 fiscal year**. Indicate if the request is being made as part of the response to the COVID-19 pandemic. If you are submitting multiple requests under the same category, prioritize them by assigning a rank to each request ('1' indicating the highest priority request). Include only one request per row; if additional rows are needed, insert new rows in the table ([how to add rows](#)).

Personnel Resource Requests

Personnel Sub-Category (Full-Time or Part-Time Faculty, Classified, Student Worker)	Description/Justification	Percent Time	Estimated Annual Salary Costs	Estimated Annual Benefits Costs	Total Estimated Cost
faculty extra service	Arboriculture Program Outreach Cannabis Program Outreach Landscape Architecture Program Outreach Outreach to high schools LANHT Redesign Facility Liaison and Consultant		\$40,000	\$7,000	\$47,000
student aides	6 student aides - to support classroom activities	15 hr/week	\$45,000		\$45,000
student workers	3 student workers - Opportunity to apply skills learned in class and to build on these skills for future employment	20 hr/week	\$30,000		\$30,000
Science Technician	Nursery, lab and grounds support	40 hr/week	\$50,000	\$18,000	\$68,000

Resource Requests (Non-Personnel)

Resource Categories

- Professional Development (Department wide)
 - Professional Development (Personal/Individual)
 - Required Reasonable Accommodation
 - Service Contract
 - Supplies:
- Software
 - Supplies: Books, Magazines, and/or Periodicals
 - Supplies: Instructional Supplies
 - Supplies: Non-Instructional Supplies
 - Supplies: Library Collections
 - Technology & Equipment: New
 - Technology & Equipment: Replacement
 - Other

Resource Category (select from above list)	Description/Justification	Total Estimated Cost	Priority (1=High Priority)
Professional Development	Professional conferences and memberships (ISA, ASLA)	\$2,000	2
Office supplies	Toner, paper, pens, tape, scissors, paper clips, folders, note pads	\$3,000	1
Instructional supplies	Soil, fertilizers, plant material, seeds, containers, irrigation and construction supplies, design supplies (pencils, paper, drawing templates), soil and foliar testing kits	\$20,000	1
Equipment	Equipment for labs, which may include chipper, air spade, chain saws, hand pruners, hand saws, long reach pruners, ladders, gloves, power tools for construction, SMART irrigation controllers, and irrigation valves.	\$85,000	1
Software	Sketch-up, vectorworks, adobe suite, indesign	\$7,500	1
Facility Improvements	Pedestrian gate	\$5,000	1
Resources needed for transition to new facility	Computers, printers, tools, lab supplies (soil, plant material, construction supplies, mulch), nursery/greenhouse supplies, irrigation materials (including valves)	\$100,000	2

IX. Participants

Please provide the list of members who participated in completing this program review.

Laura Forlin, Co-Chair, Landscape Horticulture Department
Chris Grampp, Co-Chair, Landscape Horticulture Department
Molly Sealund, Coordinator Landscape Horticulture Department

Thank you for your time and effort in completing the Annual Program Update!