Program: Horticulture
Division: STEM
Date: 11/29/18
Writer(s): Thomas Fuller
SLO/SAO Point-Person: Thomas Fuller

Audience: Deans, Vice Presidents of Student Services and Academic Services, All Planning and Allocation Committees. This document will be available to the public.

Uses: This Program Review will be used to inform the campus and community about your program. It will also be used in the processes of creating Division Summaries, determining College Planning Priorities and allocating resources. A final use is to document fulfillment of accreditation requirements.

Time Frame: This Program Review should reflect on program status during the 2017-18 academic year. It should describe plans starting now and continuing through 2018-19. This document also provides the opportunity to describe more long-term plans (optional).

Sections: The first section of this Program Review focuses on general program reflection and planning. The second section has specific questions to be filled out by all programs this year. The third section is an SLO/SAO update. The fourth section is a review of curriculum. Only programs with curriculum need to complete Section 4.

Topics: A list of topics of particular interest to Program Review readers can be found here: https://goo.gl/23jrxt
Help: Contact Karin Spirn: kspirn@laspositascollege.edu

Instructions:

1) *Please respond to each question as completely as possible.*
2) *If the requested information does not apply to your program, write "Not Applicable."*
3) *Optional: Meet with your dean to review this document before October 22.*
4) *Send an electronic copy of this form to Karin Spirn and your Dean by October 22.*

Links:

Program Review Home Page: https://goo.gl/XATgjJ
Fall 2017 Program Review Updates : https://goo.gl/pkv76m
Frequently Asked Questions: https://goo.gl/iIhRtt

Section One: Program Snapshot

No Significant Changes Option

☐

Contact person: _____Thomas Patrick Fuller_____

By marking an X in the box above, the writers of this Program Review indicate that there have been no significant changes to their program or their program's needs in the past year. In this case, programs may opt not to complete Program Review Section One: Program Snapshot. **Programs must still complete all other sections (as applicable).**

Please note: Choosing this option means that your program's information may not be included in the yearly Division Summary.

The No Significant Changes Option may only be used for two years in a row; after two years, programs must complete a full Program Review including the Program Snapshot. Our program's most recent Program Review was submitted in the following semester: Fall 20_____.

A. **Program Description: Briefly describe your program, including any information or special features of your program that will provide helpful context for readers of this Program Review.**

B. **Changes to Program and Needs: Describe any significant changes to your program or your program's needs since the previous Program Review Update (Fall 2017).**

We have revised Program Curriculum to offer four progressive Certificates of Achievement: Ornamental Horticulture, Landscape Maintenance and Construction, Nursery, Greenhouse, and Grower Operations, and Landscape Design.

Through the Curriculum Committee, we have added a Horticulture Certificate of Completion (Non-Credit CDCP). This is an outgrowth of a program in Adaptive Horticulture, that we have offered through the Community Education Department in a collaboration between Las Positas College, Pleasanton Unified School District, Sunflower Garden Foundation, Tri-Valley ROP and several others.

Mark an X before each area that is addressed in your response.				Definitions of terms: https://goo.gl/23jrxt			
X	Community Partnerships/Outreach		Facilities, Supplies and Equipment, Software		LPC Planning Priorities		Services to Students
X	Curriculum committee items		Financial/Budgetary	X	LPC Collaborations		SLO/SAO Process
	Enrollment Management		Human Resources		Pedagogy		Technology Use
	External Factors		Learning Support		Professional Development		

C. Reflection: What plans from the 2017 Program Review or any previous Program Reviews/Updates have been achieved and how? You may also describe achievements that were not planned in earlier Program Reviews.

The course sequence scheduling has been revised to make it possible for students to achieve the goal of earning a basic certificate or degree within a 2 year period. It is still not possible to schedule all the classes needed for all the certificates within a 2 year period.

Mark an X before each area that is addressed in your response.				Definitions of terms: https://goo.gl/23jrxt			
	Community Partnerships/Outreach		Facilities, Supplies and Equipment, Software		LPC Planning Priorities		Services to Students
	Curriculum committee items		Financial/Budgetary		LPC Collaborations		SLO/SAO Process
X	Enrollment Management		Human Resources		Pedagogy		Technology Use
	External Factors		Learning Support		Professional Development		

D. IR Data Review: Describe any significant trends in your program's data from the office of Institutional Research and Planning. (Note: Not all Programs have IR data packets available; if your program does not have a data packet, you may note that in the response box). You may also discuss any other data generated for your program by the Office of Institutional Research and Planning.

IR Data packets are available here: http://www.laspositascollege.edu/research/progrev.php

Course Success Rates Dashboard can be found at the bottom of this page: http://www.laspositascollege.edu/research/outcomes.php

We notice a slowly rising level of overall enrollment in recent years. Success and completion rates (as percentages) are relatively stable. There has been a small increase in full-time enrollment (as opposed to part-time) in recent years.

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	Community Partnerships/Outreach		Facilities, Supplies and Equipment, Software	LPC Planning Priorities		Services to Students
	Curriculum committee items		Financial/Budgetary	LPC Collaborations		SLO/SAO Process
X	Enrollment Management		Human Resources	Pedagogy		Technology Use
	External Factors		Learning Support	Professional Development		

E. Other Data Review (Optional): Describe any significant findings based on other data regarding your program. Possible sources of relevant information might include, but are not limited to, the following:

- o **Data generated by your program**
- o **CEMC Data**
- o **Labor Market Data**

The Centers of Excellence Community College Consortia (COECCC) data projects 317 annual Horticulture related job openings between 2015-2018. The COECCC data reports an average total of 163 Horticulture Program completers per year from 2012 to 2016, yielding a demand of 154 openings per year of the combined occupations (SOC Codes). Geographic area: SF Bay Area Counties.
(Source: Data compiled by and used with the permission of the Centers of Excellence.

Mark an X before each area that is addressed in your response.				Definitions of terms: https://goo.gl/23jrxt		
	Community Partnerships/Outreach		Facilities, Supplies and Equipment, Software	LPC Planning Priorities		Services to Students
	Curriculum committee items		Financial/Budgetary	LPC Collaborations		SLO/SAO Process
	Enrollment Management		Human Resources	Pedagogy		Technology Use
X	External Factors		Learning Support	Professional Development		

F. Impacts to Students (Optional): Discuss at least one example of how students have been impacted by the work of your program since the last Program Review Update (only if you did not already answer this in Questions B-E).

One student who enrolled in the Adaptive Horticulture program has successfully transitioned to our credited Horticulture program. Several of our regular Horticulture students have reported back that they have been able to attain employment or promotions thanks to the knowledge gained in our classes.

Mark an X before each area that is addressed in your response.			Definitions of terms: https://goo.gl/23jrxt		
X	Community Partnerships/Outreach		Facilities, Supplies and Equipment, Software	LPC Planning Priorities	X	Services to Students
	Curriculum committee items		Financial/Budgetary	LPC Collaborations		SLO/SAO Process
	Enrollment Management		Human Resources	Pedagogy		Technology Use
	External Factors		Learning Support	Professional Development		

G. Obstacles: What obstacles has your program faced in achieving plans and goals?

1. Our biggest obstacle is lack of classroom and lab facilities. Since losing our class/lab room several years ago, Horticulture classes have been bounced around several classrooms in several different buildings. Most of those rooms have no storage space or lab facilities. Some are located in buildings that are remote from our greenhouse and horticulture yard.
2. We have a lack of adequate storage in our Horticulture Yard. Motorized equipment is being left out to weather in the sun, and rain, thereby shortening their useful lives. Our parts and supplies our crammed into a connex container that is too small, and not well suited to efficient organization and storage.
3. The shade house is suffering from old age, built in 1980. The framework is good, but the fabric is beginning to rip and tatter. The irrigation system to the shade house and rest of the Horticulture Yard is almost obsolete.
4. One of our new classes, CAD Landscape Design, cannot be offered yet, due to lack of a classroom with CAD capability. This needs to be addressed in our new master plan. A fully CAD capable classroom could be shared between Horticulture, Interior Design.
5. Enrollment needs to be increased in order to support scheduling an adequate number of courses.

Mark an X before each area that is addressed in your response.			Definitions of terms: https://goo.gl/23jrxt		
	Community Partnerships/Outreach	X	Facilities, Supplies and Equipment, Software	LPC Planning Priorities		Services to Students
	Curriculum committee items	X	Financial/Budgetary	LPC Collaborations		SLO/SAO Process
X	Enrollment Management		Human Resources	Pedagogy		Technology Use
	External Factors		Learning Support	Professional Development		

H. Short Term Planning: What are your most important plans (either new or continuing) for next year? Describe plans starting now and continuing through AY 2018-19.

1. Implementation of non-credit classes for our CTE Horticulture Program (formerly Adaptive Horticulture).

2. Improvement of equipment to offer instruction in hydroponics and aquaponics.
3. We have been working with the Facilities Committee and Veterans Service to develop the unoccupied area adjacent to the Bookstore and Veterans Office. The Horticulture program's goal is to use this area as a laboratory for our students to develop skills in landscape design and installation.

Mark an X before each area that is addressed in your response.				Definitions of terms: https://goo.gl/23jrxt			
X	Community Partnerships/Outreach	X	Facilities, Supplies and Equipment, Software		LPC Planning Priorities		Services to Students
X	Curriculum committee items		Financial/Budgetary	X	LPC Collaborations		SLO/SAO Process
	Enrollment Management		Human Resources		Pedagogy		Technology Use
	External Factors		Learning Support		Professional Development		

I. Long Term Planning (Optional): Please detail any long-term plans for the next 3-5 years. (Only if you have significant plans, such as implementation of a grant project, creation of long-term initiatives including those using restricted funds such as Equity or SSSP, construction and outfitting of a new building).

1. **We need continued input into the Master Plan and construction process. A new Horticulture facility is being planned. We need to make sure that our class/lab and greenhouse are built as free-standing structures, and not part of a large classroom building. We also need to insure, that we are allocated adequate, shade and equipment structures, growing grounds, demonstration areas, and equipment to fulfill the needs of the Horticulture program.**
2. **We need to implement improved student recruitment, outreach to the community, and collaboration with local K-12 districts.**

Mark an X before to each area that is addressed in your response.				Definitions of terms: https://goo.gl/23jrxt			
X	Community Partnerships/Outreach	X	Facilities, Supplies and Equipment, Software		LPC Planning Priorities		Services to Students
	Curriculum committee items	X	Financial/Budgetary		LPC Collaborations		SLO/SAO Process
X	Enrollment Management		Human Resources		Pedagogy		Technology Use
	External Factors		Learning Support		Professional Development		

Section Two: Current Topics (Required for All Programs)

A. Educational Master Plan: A list of goals and strategies appears on page ii of the Educational Master Plan, which can be accessed here:

http://www.laspositascollege.edu/about/assets/docs/LasPositas_Ed_Master_Plan.pdf

If applicable, describe how your program's upcoming plans reflect the goals described in the college's Educational Master Plan (your plans are described in Section 1, Questions H-I, or on a previous program review if you did not complete this year's Program Snapshot).

Non-Credit CTE classes in Horticulture:
A5. Assist underprepared students.
A6. Focus on workforce readiness
Outreach and Collaboration with the local community:
B1. Expand K–12 outreach.
B2. Update programs to serve workforce needs.
B3. Develop and strengthen private and public sector partnerships.
B4. Publicize the strengths of Las Positas College
Involvement in the Master Planning Process:
C2. Build infrastructure to support and implement grants.
C3. Provide appropriate staffing levels.
C4. Meet current and future technology needs.

B. Program-Set Standard (Instructional Programs Only): Did your program meet its program-set standard for successful course completion? __**x**_yes _____no

Program-set standard data can be found on this page:
http://www.laspositascollege.edu/research/outcomes.php

If your program did not meet your program-set standard, discuss possible reasons and how this may affect program planning or resource requests.

C. Facilities: Do you have any facilities needs that are currently unmet? If yes, please describe.

Yes. We currently have no dedicated lab or classroom. Our greenhouse, storage facilities, shade house and yard are obsolete, in disrepair and scheduled to be demolished in the next phase of construction.

D. Professional Development

Section 87153 of California Education Code specifies the type of Professional Development activities that may be funded by the Community College Professional Development Program. You can review these activities here: https://goo.gl/w8sqBM

D1. Summarize the aspects of professional development that have been working well for your program. This might include the process of obtaining funds, the types of training your program members have been attending, etc.

none

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D2. Summarize any needs, desires and visions your program has regarding professional development, as well as any challenges.

none

E. Program Review Suggestions (optional): What questions or suggestions do you have regarding the Program Review forms or process?

none

Section Three: SLOs/SAOs (Required for All Programs)

A. In the box below, copy and paste your "Plans for Analysis of SLO/SAO Data" from last year's Program Review. This plan can be found in the [2017 Program Review](#) Section 1 Question L.

(If discussing multiple PSLO/SAOs copy the box below as needed.)

Circle One:
CSLO   PSLO   SAO
Course, Program Name, or Student Service Area: **none**
Text of CSLO/PSLO/SAO:
If you plan to analyze a PSLO, identify the courses that are mapped to the PSLO.

B. Below, report on your program's progress on the plan described in Question (A) above.

Text of CSLO/PSLO/SAO: none
SLOs: Assessment data collected from _____ sections over _____ semesters.   SAOs: Assessment data collected from _____ students over _____ semesters.
Describe the quantitative or qualitative results:
Discuss and reflect upon student achievement for this CSLO/PSLO/SAO. Discuss any actions taken so far (and results, if known) and your action plan for the future:
What changes in student achievement are evident across the semesters you analyzed? What are some possible explanations for these changes?   none
DO you plan to continue tracking this SLO in the next year? Explain.   No, not useful.

C. Planning: What are your future plans (either new or continuing) for SLO/SAO analysis for next year?   Identify the PSLOs, CSLOs, or SAOs that your program plans to focus on the upcoming year with subsequent analysis (next year's program review). (Copy the box below as needed.)

Circle One: CSLO   PSLO   SAO
Course, Program Name, or Student Service Area: **none**
Text of CSLO/PSLO/SAO:
If you plan to analyze a PSLO, identify the courses that are mapped to the PSLO.

D. SLO/SAO Suggestions (optional): What questions or suggestions do you have regarding SLO/SAO planning, assessment and reporting?

none

Section Four: Curriculum Review
(Programs with Courses Only)

The following questions ask you to review your program's curriculum. To see the last outline revision date and revision due date:

> **1. Log in to CurricUNET**
> **2. Select "Course Outline Report" under "Reports/Interfaces"**
> **3. Select the report as an Excel file or as HTML**

Curriculum Updates

A. Title V Updates: Are any of your courses requiring an update to stay within the 5 year cycle? List courses needing updates below.

no

B. Degree/Certificate Updates: Are any degrees/certificates requiring an update to do changes to courses (title, units) or addition/deactivation of courses? List needed changes below.

no

C. DE Courses/Degrees/Certificates: Detail your department's plans, if any, for adding DE courses, degrees, and/or certificates. For new DE degrees and/or certificates (those offered completely online), please include a brief rationale as to why the degree/certificate will be offered online.

none