



Biological Sciences Advisory Draft Meeting Minutes

September 2, 2020 | 5:00 | Zoom

LPC Mission Statement

Las Positas College provides an inclusive, learning-centered, equity-focused environment that offers educational opportunities and support for completion of students' transfer, degree, and career-technical goals while promoting life-long learning.

LPC Planning Priorities

- ❖ Implement the integration of all ACCJC standards throughout campus structure and processes.
- ❖ Establish a knowledge base and an appreciation for equity; create a sense of urgency about moving toward equity; institutionalize equity in decision-making, assessment, and accountability; and build capacity to resolve inequities.
- ❖ Increase student success and completion through change in college practices and processes: coordinating needed academic support, removing barriers, and supporting focused professional development across the campus.

Committee Name

Quorum:

Members:

Barbara Zingg
Camille Troup
Chandra Khantwal
Dianna Maar
George Farquar
Jean O'Neil-Opipari
Jill Carbone
Josie Sette
Kristen Wolslegal
Linnea Fletcher
Michal Shuldman
Monica Borucki
Nan Ho
Nicholas Heredia
Nicole Shapiro
Peter Mattei
Poornima Rao
Robert Saul
Sahar El-Etr
Stephanie Sibert
Stevan Jovanovich
Sulatha Dwarakanath
Victoria Vandernoot
Vivek Sharma
Yolanda Fintchesko

Agenda Item

1. Call to Order and Intros - Call to Order 5:05 by Michal Shuldman

Tori Vandernoot. Josie Sette, Stevan Jovanovich, Jill Carbone, Nick Heredia, Darci Ernst, Michal Shuldman, Yolanda Fintchesko, Linnea Fletcher, George Farquar, Monica Borucki

2. Review of Agenda -

3. Review and Approval of Minutes, April 1, 2020

Tori name is misspelled (one r)

Nick H. moves to approve minutes with correction

Stevan J. seconds

Minutes Approved, Jill abstains

4. Industry Updates

• Emerging Trends

Stevan, ready to look for an intern, slowly reopening, things are slow to re-open, one person to a room at a time, assigning distributes in Asia because they more open. US very slow to open up. Internships will be a lot thinner so not so many people in the spaces.

George -internships will be thin, will not hire anyone who does not have hands on lab experience, difficult

Michal – only running 2 hands on lab, also doing CRISPER which students were not able to do before.

George – tell students to emphasize any hands-on experience.

Linnea – survey of bio-tech programs across the country. Either half labs or ½ the number of students

Nick – BioRad Labs, social distancing, anything that can be offsite work from home. Different workflows in lab to limit exposure, they are hiring

Torri – have had interim positions for remote working (bioinformatics), looks like moving to having interns back on site!

LPC does not have a pathway for biomanufacturing techs.

Linnea – bring manufacturing to US

Darcy – Classes exist, but the skill set for biotech tech is hard to find.

Suggest bio manufacturing to students

Josie – Most courses online, colleges in Bay Area work hard to put together kits COVID test kits for students to take home. – Strong

Work Force funding provide funding for innovative ideas to solve problems brought on by COVID, developing curriculum for High

Schools – info on COVID, developed with CC instructors kits

address how you would do a test for COVID, simulation online, analyze test and rapid test will be done by student at home in coordination with instructors, available in October.

Michal – huge reduction in courses in Spring because of budget cuts.

George – do not start a start up during a pandemic, hard time, hard to read the room of investors on Zoom

Michal -LPC students have received kits to do experiments at home funded with CARE funding. Any material that can be returned will keep costs down. As much hands on as [possible limits on funding, time

Nick – do you need \$ to buy more kits. Has a lab in his garage now

Nick – opportunity for students out of this, trend is virtual conferences. Wonder if this will enable students to attend conferences virtually. Look at Scientific conferences for students.

Ask for names of big conferences.

Michal going to conference that she was not able to attend before.

Linnea – got more people to attend who were not able to attend before. Figure out a rubric to make sure students have mastered the technique (hands on skills) Mini PCR (biotech lab in a kit), afraid to use materials that could be dangerous.

Nick – Exploratorium, electrophoresis with 9V battery

Stevan – making sure students get the right results, using phone and a calibration card.

Michal - Bio1C is going to be in person, so lab not as much of a problem. Students had to upload video of themselves doing the lab. Won't have as much experience with microscopes. Will be able to scan, make slides, so they will get some skills

Linnea – In industry, teams one person carries out procedure and one watches and provides direction. Person watching can be on the phone.

- **Internship Opportunities**

5. Faculty Report

- **Computational Biology - Michal**
 - **Promoting class and degree**
 - Institutional Research gather info on students who would qualify for class
 - Don't have an instructor, what time should class be offered, class will be online
 - Torri – folks might be interested in position? Send out position to the advisory
 - Nick – post position on linked in

- George – Tom Slezack, retired from LLNL, will make introductions (may be interested)
- Promoting the major and class
- Yolanda can promote on East Bay bio network for job and major. Join East Bay bio network
- Nick – post new course on Linked in, people looking to connect, improve skills on linked in
- Anyone can take class as long as they have prerequisite.
- Nick – asynchronous class will be easier for students.
- Michal – Even if asynchronous done by module so can't be done in two weeks. Have to decide by Friday, probably have a combo class, asynchronous and synchronous. All course objectives worked out, has gone through curriculum. Offer credit and non-credit. Explore noncredit option
- Jill – most classes a combo, but want to let the instructor decide
- Yolanda – took the class with out degree still beneficial for those in the field. Can the process be expedited?
- **1-Yolanda moved and Linnea seconded recommending mirroring class in Community Ed, non-credit, Board approved unanimously**
- George – online environment means any student from anywhere can take courses
- Josie – some of students who attend bio informatics are programmers, what would you do if someone who is a programmer wants to take the class. For credit must meet the prerequisites. If they take it non-credit don't need to meet prerequisites. Promote to CS students
- Yolanda – many online forums for Data Science folks
- Nick – will not be able to be back up faculty, will be happy to do one guest lecture
- Jill – Thank you Nicki and Dianna for all the work on the Bio Infor. class
- **NSF Grant, Michal**
 - **Description**
 - 3-year grant, skills that we would develop classes around, may be algae focused
 - Need help on partnership side and content for badges.
 - What skills would be assessed
 - Everyone in class needs to make LinkedIn profile
 - Some of work based on work that Linnea has done
 - Skills that are proposed, see google doc. Walk through steps with students. Make the students do steps until they pass.

- Need help putting together list of skill that students should master
 - Importance of soft skills, get jobs and internships
 - Linnea – have students working on algae that has not previously been identified. How students report out their work is part of badge and can be one of the soft skills. Started to do a lot more oral reporting. They became experts at reporting orally. Pushed hard on data analysis and process development.
 - If people have ideas for modules to incorporate in classes, let us know (cell culture, combine with sterile reagent prep, c-phage project, doing cultures with plants easier than animals, LPC doesn't have fancy hoods)
 - Meet one on one to get ideas
 - Stevan can help with sterility, do work in pods (smaller groups), let group know what equipment LPC has
 - Linnea – met in groups to decide what students would have to master in PCR, media prep or sterile technique. Really believe you don't need a fancy hood to teach good lab technique
- **How has LPC adapted to the SIP?**
 - **How are students handling on-line learning?**
 - Michal – challenging, some students lack computer skills, training provided faculty training over the summer. Students miss being in the lab. What are the benefits of working in teams, shifting responsibilities. Most faculty do at least some synchronous. Interesting to see what the success rate is this semester. Students are excited to be back in school, learning group management and online. Not overwhelming # dropped in spring
 - Stevan – students can benefit from breakout sessions to interact with their peers
 - Linnea – (Bio-made, Patel) Synthetic Biology, bio manufacturing funded by dept of defense.
 - Linnea – LPC first in bagging in biotech
 -

6. Recommendations from the Board

7. Good of the order

8. Adjournment, 6:33 by Michal

9. Next Regular Meeting: Wednesday, March 3 at 5:00