

Minutes

LPC Mission Statement

Las Positas College is 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 lifelong learning.

LPC Planning Priorities

- ❖ 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.

Biological Sciences Advisory Board

Members:

Barbara Zingg Vivek Sharma
 Camille Troup Yolanda Fintchesko
 Chandra Khantwal
 Dana Nakase
 Dianna Maar
 George Farquar
 Jason Maxwell
 Jean O'Neil-Opipari
 Jill Carbone
 Kai Blaisdell
 Josie Sette
 Kristen Wolslegal
 Linnea Fletcher
 Michal Shuldman
 Nan Ho
 Nicholas Heredia
 Nicole Shapiro
 Petter Mattei
 Pornima Rao
 Robert Saul
 Sahar El-ETr
 Segal Boaz
 Stephanie Sibert
 Stevan Jovanovich
 Sulatha Dwarakanath
 Vicki Shipman
 Victoria VanderNoot

1. Call to Order

2. Review and Approval of Agenda, 9/15/2022

- Segal/Nicole – Approved

3. Review and Approval of Minutes, 3/24/2022

- Stevan/George – Approved

4. Industry Updates

▪ Emerging Trends

- Stevan shared that they are having supply chain issues, they are still looking for interns and they are hard to find, funding of startups is down.
- George shared that the smaller investors are more willing to help startups because the risk is less.
- Tori is struggling with hiring as well.

▪ Industry Needs (Skills)

- S2 Genomics has jobs that require a range of skills from basic things like putting things in a sonicator, taking that, putting in a hood, letting them dry, assembling a little grinder that disrupts our tissue etc. They are primarily looking for people who are careful and want to work.
- Buzkill Labs has the same needs, a range of skillsets.
 - Interns should realize that prep for and tear down after experiments is required. During downtime they should be cleaning their work areas, taking out the trash, taking inventory etc.
- (Yolanda?) ___ needs a steady stream of interns for quality testing. Someone who is careful and can document correctly, follow procedures etc.

▪ Internship/Employment Opportunities

- (Yolanda?) We post jobs for internships for any startup for free on StartUp TriValley.
- Tori – we still have a robust internship program. We have a year-round intern position.
- George – Open Campus LLNL
 - All the interns we've had from LPC work hard, and we really appreciate that.

5. Advisory Advice

- **How can the advisory help with enrollment, marketing, etc.?**
 - Dana shared that our enrollment has declined a bit, but our classes are still filling just at a slower rate.

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- Segal shared that LPC would like the advisory's help with how to shape the (BIO 2A) Bioinformatics class to be an entry-level class as opposed to a Capstone course.
- Michal shared that LPC was going to offer it in the evening and have a lecture and lab stacked together with the other lecture material being asynchronous. The hope was that it would appeal to individuals that had PT/FT jobs.
- It was recommended to advertise BIO 2A in BIO 30 and BIO 1A classes because they have a bioinformatics module. Also via Innovation Tri-Valley
- **Advisory Comments:**
 - Do you have a small section about lateral flow assay design? It is such a current topic and will be for a long time.
 - We have "PCR assay design", we will remove "PCR" and leave it as "Assay Design" so it is more flexible. In addition, we will add "Assay" to "PCR Technology" so it reads, "Assay and PCR Technology".
 - As far as the time of day this class is offered, the evening sounds like it would accommodate more individuals work schedules.
 - As far as online vs. in-person, LPC should offer this class Hybrid with some option for in-person.
 - Advisory recommended having a guest speaker to gain more enrollment.

6. Program Report

- **New Nell & Molecular FT Instructor: Kai Blaisdell**
 - Welcome Kai!
- **Enrollment**
 - Our enrollment has taken a bit of a dip but that is reflected across all community colleges right now; we are fortunate that biology enrollment has remained strong.
- **Curriculum Changes**
 - Current Prerequisites for Bioinformatics are BIO 30 or BIO 1C, CS 7, and MATH 40. Moving forward, effective Fall 2023, students will only need ONE of the following: BIO 30, BIO 1C, CS 7, or CS 1.
 - These changes allow for students to come from various backgrounds and provides more flexibility.
 - Nan shared that we desperately need to hire BIO faculty so if anyone knows of anyone please recommend them to us!
- **APEX Grant (Applied Programming Experiences)**
 - In partnership with SJSU, it is a program designed to put python skills into lower-level classes in community colleges throughout the Bay Area. We are piloting it in BIO 30 and BIO 1A.
 - Link to [Promotional Video](#)
- **Updates Based on Feedback**
 - **Technical Bio-Badge**
 - Students have the opportunity to earn skills badges they can display on their LinkedIn pages.
 - To earn a badge students need to undergo an assessment and show they know how to perform certain tasks.
 - **BIO 1B (Zoology) Lab**
 - Developed ~ 10 new lecture/labs as curriculum for BIO 1B
 - Adding an ELISA lab; Mock case of using shark VNARs to improve the quality of diagnostic platforms for diagnosing Malaria.

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- **BIO 2A (Bioinformatics)**
 - **BIO 30 Bioinformatics Lab Module**
 - We will be guest teaching this module in each other's classes which will give part-time faculty the opportunity to be exposed to the material.
 - **Plans for BIO 2A Bioinformatics Class**
- **Biotech Bootcamp Summer Camp**
 - Jason and Amy taught it and we offered a couple scholarships. It was a two-week camp, with the second week being the more advanced week.
 - We are working with someone from district outreach programs to figure out how to get more minoritized students involved.
- **Hiring Plans**
 - We are submitting requests for two full-time faculty.
 - Allied-Health, Anatomy and Physiology
 - Microbiology
- **STEAM Building (Art + Sciences)**
 - We are in the planning phase of the new STEAM Building. BioScience areas will include wet labs, cadaver room, lab support, shared learning labs, shared spaces, study, and collaboration spaces.

7. Recommendations from the Board

- The advisory board recommends changing the COR for BIO 2A Content section 5.4 to include Assay Technology, and in addition update the Lab Content section 6.1 to just say, "Assay Design".
 - Motion to approve this recommendation made by Stevan, seconded by George. Approved.
 - Michal Shuldman will take these changes to Curriculum Committee on Monday, 9/19/2022.

8. Good of the Order

9. Adjournment

10. Tentative date for next regular meeting:

- March 30, 2023, 5:00 – 6:30 pm (Hybrid)