CIS/CNT/CS ADVISORY BOARD MINUTES

September 27, 2022 | 4:45 – 6:15 p.m. | 1687

Computer Studies Advisory Board

Members Present:
Peter Andrus
Moh Daoud
Nan Ho
Bill Komanetsky
Carlos Moreno
Jean O'Neil-Opipari
Mark Tanis
Jeff Weichert
Jigyasa Grover

MINUTES

1. **Call to Order – Welcome and Introductions**

2. **Review and Approval of Agenda, 9/27/2022**
   - Agenda reviewed and approved by advisory board

3. **Review and Approval of Minutes, 4/28/2022**
   - Correction: remove "ddd" under "Plans for Fall and Spring"
   - Minutes reviewed and approved by the advisory board

4. **Industry Update**
   - **Training and Hiring Needs**

     - Mark Tanis shared that people are coming back into the office and hiring is picking back up. CBT just hired two interns and they are very bright! Las Positas College is doing a great job with their students. Mark added that we should encourage our students to work for an IT MSP as that can be a steeping stone to a better career while they gain experience necessary for the field.

     - Nan Ho recommended we interview Peter's previous interns to gain more insight on the transition from being an intern to moving on to a career; Peter shared that he still has contact with those individuals and would be happy to connect us to get their story.

     - Bill Komanetsky shared that he pushes in his is for students to view their education as not, "I have to get four years and then go work" but more "maybe I get two years and then start working". Some student feedback was that it is nice to hear that mindset from their instructor, but it is hard to change the minds of our parents that want us to go to four-year universities.

     - Peter Andrus share that a lot of employers require coding interviews now, and those interviews are difficult especially when you aren't expecting them.

     - Key Takeaways: Offer Summer internships and hold mock interviews for our students.

   - **Emerging Trends**
     - Security
     - Machine Learning (ML)
     - Information Technology (IT)
     - *Forbes 10 Tech Trends that will Transform Our World*
       - shared by Mark Tanis

- Trend 1: Ubiquitous Computing
- Trend 2: Connected and Smart Everything
- Trend 3: The Datafication of our World
- Trend 4: Artificial Intelligence (AI)
- Trend 5: Extended Reality (XR)
- Trend 6: Digital Trust
- Trend 7: 3D Printing
- Trend 8: Gene-Editing and Synthetic Biology
- Trend 9: Nanotechnology and Materials Science
- Trend 10: New Energy Solutions

- **Internship Opportunities**

  - [LPC Internship and Job Board](#)

  - If you have questions about how to sign up on Handshake please reach out to Anne Kennedy or Kristi Vanderhoof. This is a great resource to post your internships and share employment opportunities.

5. **LPC Program Updates**
   - **Advisory Board Development (Jean)**
     - We are small but mighty; Please share this advisory board with your follow colleagues and recommend they join our advisory board. The more individuals we get the better and more informed we are for our students.
   - **Enrollment (Bill)**

	Fall 2019	Spring 2020	Fall 2020	Spring 2021	Fall 2021	Spring 2022	Fall 2022
CIS	479	532	449	454	406	431	351
CNT	197	191	247	256	198	210	234
CS	482	456	422	405	378	402	395
Total	1158	1179	1118	1115	982	1043	980

   - CIS has had a large drop over time, CNT is regaining where it was in 2020, and CS is holding steady.
   - **Cyber Summer Camp, 2022 (Jeff)**
     - In mid-June we offered a two-week cyber boot camp, which provided students with a taste of various topics, and at the end of the two weeks they participated in a "capture the flag" exercise against several other Bay Area colleges that were offering the same cyber camp during the same two weeks. Students were then given an opportunity to join a third week which taught advanced topics.
   - **Curriculum Changes (Bill)**
     - Thinking of dropping:
     - CIS 8, CS 16, and CS 18
     - CIS 8 (Essential Computing Skills) has very low enrollment. We are considering dropping this course in lieu of our other course, CIS 50 (Introduction to Computing Information Technology) which always has high enrollment. CIS 8 provides an introduction on various topics, whereas CIS 50 has more in-depth information on those same topics.

- CS 16 (Mobile Application Development iPhone) and CS 18 (Mobile Application Development Android) have low enrollment as well and students don't find these to be transferable. The advisory board discussed, and determined that Las Positas College deactivating CIS 8, CS 16, and CS 18 was okay and would not be detrimental to the students as they have other options of courses to gain the same skills.
- Carlos Moreno shared updates on AI and ML courses. He attended the Curriculum Committee and made changes to the prerequisites which are CS 1, CS 7, and MATH 40. There are very few students who meet all the prerequisites but a lot of students who are interested in taking those courses. Carlos moved CS 7 and MATH 40 to strongly recommended and thus they are no longer required but there is the strongly recommended note and has embedded statistics and python into the course.

- **CS at Livermore High School (Bill)**
  - Two semesters ago we offered CS 7, which is our python course, to LHS. The reason that we did that was because they lost their only computer science teacher. We are planning on offering it again in Spring 2023. This class served as a great bridge because now we have those same students enrolled here at LPC. We are thinking of offering CS 1 at LHS as well.

- **Student Success Teams (Jean)**
  - Las Positas College has [Academic and Career Pathways](#) which are groups of our divisions paired together based on curriculum and learned skills. The [BUSN, ENTR, ECON, and IT Pathway](#) is where CIS and CNT reside, and the [STEME Pathway](#) is where CS resides.
  - Each Academic and Career Pathway provides invaluable information to students such as degree/certificate program maps, a student to do checklist, the opportunity to explore introductory courses within that pathway, and an overview of careers associated with the pathway.
  - Each Academic and Career Pathway also has its own Student Success Team which is a group of individuals familiar with the disciplines that can help guide them down the pathway and answer any questions they may have.

- **Events (Jean)**
  - **LLNL ITO Career Workshop Joint Event, 11/10 at 5:00 p.m.**
    - Panel of 4-5 LLNL employees will share a day in the life of their role.
    - Jeff and Moh will discuss programs and certificates that relate to LLNL's job postings.
    - Tri-Valley Career Center will talk about how they can help pay for some of the certification exams.
  - **Robert Half Virtual Information Session,**
    - Information Security Analyst Apprenticeship
      - Certificate and Associate of Science degree
    - [Apprenticeship Information](#)
  - **Discuss Data Analytics**
    - We're looking at possibly creating a degree in Data Analytics that can be articulated to Berkeley.
      - Jigyasa Grover recommended it belongs in CS program.

6. **Recommendations from the Advisory Board**
   - Jigyasa Grover recommended we encourage our students to apply to and participate in [Summer of Code with Google](#) which is an open-source program.

7. **Good of the Order**

8. **Adjournment**

9. **Tentative Spring Meeting:** Tuesday, March 28, 2023, at 4:45 PM