Computer Studies Advisory Board
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.

Computer Studies Advisory Board Members

= In attendance

Jonathan Allen	Pavan Manocha
Dennis Andal*	Sue Marlais
Peter Andrus	Joseph Marsili
Pavan Attur	Beth McCormick*
Miguel Baez	Brian Moraca
Robin Basham	Carlos Moreno*
Tim Berg	Jean O'Neil-Opipari*
Anita Bhatia*	Thomas Orf
Eddie Borrero*	Mark Pettit
Cory Brown	Jaime Pirnie
Daniel Cheng	Jim Sharp*
Erica Cunningham*	Vicki Shipman
Moh Daoud*	Mark Tanis*
Debbie Fields*	Dwayne Thaele*
Richard Grotegut	Charles Troup*
Jigyasa Grover	Jake Walkenhorst
Kevin Kiyoi*	Jeff Weichert*

Guests
Cory Brown (for Robin Basham), ISC2
Brandon Ellis (for Brian Moraca), LLNL

Meeting Minutes

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

2. **Review and Approval of Agenda,** 3/26/2024
   - Amendment: Add Kevin Kiyoi as an agenda item in between items 6 and 7
   - Amendment: Cory Brown will be presenting in place of Robin for item 4
     - Agenda with amendments: Erica Cunningham motioned; Jeff Weichert seconded; motion approved; approved.

3. **Review and Approval of Minutes**, 10/3/2023
   - Erica Cunningham motioned; Carlos Moreno seconded; motion approved

4. **Future Employers for Cyber Security Professionals - Cory Brown, ISC2**
   - *Background:* Beth McCormick shared that LPC has been talking a lot about increasing cybersecurity training and integrating it into the curriculum and as such we were introduced to ISC2 and met with their board of directors which have agreed to help Las Positas integrate some training and simulations and help us look at our curriculum to better align us to the industry.
   - ISC2 is dedicated to helping fund cybersecurity certifications for students
   - ISC2 is a 501c3 non-profit
   - Keith shared we should expand "cybersecurity" to include Business majors as our target audience in addition to our CS/CIS/CNT students.
   - Charles – ThermoFisher definitely pays attention to cybersecurity. We develop instruments that we sell the customers. Those instruments have embedded computers inside so we have a group that is responsible for cybersecurity for testing our instruments to make sure that they comply with the laboratories that we sell them to.
   - Dwayne – In industries that are developing their own products whether it be hardware, software, even services there is a growing concern around the suppliers of these products and services to make sure that there isn't an induced cybersecurity risk associated with them. Some big companies now are implementing third party risk management processes and programs to make sure that the products are compliant and vendors are complying with cybersecurity standards.
   - Beth shared we need to host a panel from the industry for our STEM students to hear this kind of discussion. Students need to know what they need to have in terms of credentials and competencies to get a job.
   - Eddie Borrero (CISO for Blue Shield) - Merritt College did this with Apple; he suggests we write down for students the data and requirements that are expected for students to reference and host an industry day for industry partners to come to the classes to meet students and make connections for internships etc.
     - Cybersecurity is ingrained in every aspect of business nowadays; we need to figure out how to build curriculum behind this concept and create broader pathways with cybersecurity for students – so they aren't isolated into one technical pathway.
   - Beth shared that she wants to get together with the advisory board again over the summer, maybe in August 2024 to plan a panel, agenda, topics for students to offer in Fall 2024.

5. **Industry Roundtable**
   - **Training and Hiring Needs**
     - Cory –Stock Analysts; soft skills to get them in the door
     - Eddie - Cybersecurity awareness and training programs
     - Dwayne – Current event awareness; threat intelligence particularly operationalizing threat intelligence into your security posture and making configuration changes.
     - Mark – Artificial intelligence awareness with respect to the healthcare industry, and programming.
   - **Emerging Trends**
     - Eddie – AI emerging market; If you're a true science major in AI, some of the entry level jobs are north of $400,000 a year.
     - Charles – private companies using internal models of AI similar to ChatGTP to get around security/privacy concerns
   - **Internship Opportunities**
     - Kevin - We have a full-time person for the school district whose job it is to try to reach out to the local businesses in search of internships opportunities. Pleasanton is in negotiation with Omron Automation and California Business Technology Inc. to set up paid internships and BayOne Solutions for unpaid internships.
     - From Brandon Ellis – AI and Cognitive Simulation

6. **LPC Program Updates**
   - **Presentation Overview of CNT (Jeffery/Moh)**
     - Moh Daoud shared a presentation with an overview of the Computer Networking Technology program inclusive of our degrees & certificates and courses.
     - Highlights:
       - This is a CTE program; students don't need a Bachelor's degree
       - CNT provides students with the modern technology skills they need to success in the workforce, and advances their job skills and marketability.
       - Students can get in-demand industry certifications; we try to include professional certifications in each area by working with vendors.
       - Our curriculum is developed in partnership with our local national labs and industry partners.
       - We are partners with CompTIA, Microsoft, Cisco, VMware, Red Hat Linux, Amazon AWS, Microsoft Azure, Google Cloud Platform.
       - We offer stackable certificates; IT Support Professional, Network Support Professional, Cybersecurity Professional and the Cybersecurity & Network Administration AS degree.
     - Jeff – we have a lot of topics we cover. Is there anything we are doing that we shouldn't be (could drop) to make room for something else? We need to review current courses in our curriculum to see if we need to remove anything to make room for new items.
       - Eddie: How do these classes lead to a job? Recommendation: Mapping of classes/skills to job outcomes so students can visible see how these classes = a job.
       - Mark: Web Development, CA could go; back in the day this was important but now this often gets outsourced to somewhere else.
   - **Program Data (Carlos)**
     - Carlos shared LMI regional data for Information Security Analysts, which is the closest we could get to cybersecurity. This includes the Bay Area (San Francisco, Oakland, and Berkeley all the way down to San Jose, Sunnyvale, and Santa Clara)
     - LMI data related to rapidly growing skills broken down into three categories:
       - Top Distinguishing Skills: Threat Modeling, ISO/IEC 27001, and Security Engineering.
       - Top Defining Skills: Cybersecurity, Computer Science, Auditing, Firewall.
       - Top Foundational Skills: Python (Programming), Automation, Amazon Web Services, Risk Management, Operation Systems, Microsoft Azure.
     - Jim: Would we expect this kind of experience out of a 2-year Community College student?
       - Yes and No
       - Cory: These are things you could teach in a 6-week course; Eddie: I wouldn't expect students to have proficiency in all these areas but I would expect them to have some knowledge and skills in these areas; Brandon: at LLNL, we wouldn't expect proficiency either, but more so would be looking for exposure and understanding of what many of these technologies are, and how they're leveraged such as what would you use something for, why/how would you go dig into this tool, and what resources would you go to to better develop those skills?

7. **Amador Valley High School Capstone Project Evaluations** – Kevin Kiyoi
   - AVHS currently has 4 courses of Computer Science; Computer Science Principles, AP Computer Science, Cybersecurity, Advanced Computer Science for the Contemporary World.
   - Mark has helped Kevin with connecting a group of students who are wanting to help senior citizens in the community to a few senior citizen groups to give presentations to about cyber safety. Topics include phishing, skimming, click bait, cyber safety and awareness etc. The students are using ChatGPT to come up with examples/scenarios for their presentations.
   - Ask: Amador Valley High School's AP Computer Science class is looking for a panel of community stakeholders and or industry members to evaluate and critique live presentations about the development process of their capstone projects on Thursday, May 2nd from 4:00 – 6:30 PM. Looking for industry members to give feedback, ask hard questions of students, and share their real-world experience.
   - Carlos will share the flyer from Kevin with the advisory members

8. **Cyber Summer Camp 2024** (Jeffery)
   - 2-Week Cyber Camps
     - June 10 – 14, CyberSecurity Camp
     - June 17 – 21, CyberSecurity Advanced Skills
   - 3rd week optional – BACL & BACCC hosting
     - July 22 – 26, Virtual Advanced Summer Cyber Camp
   - For more information, visit https://www.laspositascollege.edu/cybersecurity/

9. **Fall Planning for Friday Cyber-Attack Simulations**
   - Carlos proposed that this item be wrapped into the planning being done in August. The advisory members agreed that would be a better time to look into this.

10. **Good of the Order**
    - Beth action item: host a panel of discussions from industry for our stem students about cybersecurity
    - Beth action item: prepare data for summer planning (August)
    - Carlos action item: share LMI data and Kevin's AVHS flyer with advisory board
    - Carlos action item: include Friday Cyber-Attack Simulations in August planning session.

11. **Adjournment** at 6:16 p.m.

12. **Tentative Spring Meeting:** Tuesday, Sept. 24, 2024, at 4:45 PM