

**EL CAMINO COLLEGE MATHEMATICAL SCIENCES COMPUTER SCIENCE  
ADVISORY BOARD MEETING**

May 19, 2017

**NEW PYTHON COURSE UPDATE**

This semester, the CS department offered a Python course for the first time. The class filled quickly so the plan is to offer four sections in the fall to meet the demand.

Many students in the course had a programming background so M. Ghyam was able to move through the course quicker.

Python is becoming very popular. The course has helped to improve students' abilities.

**CS HONORS**

The CS department does not currently have an Honors course.

The recommendation to have one section of CS 1 be an Honors course has been floating around. M. Ghyam will work with the Honors Transfer Program to get more information regarding the process.

Some UC's offer priority admission for Honors students.

The recommendation is to start with a CS 1 Honors course and then possibly expand to other classes if its successful.

**ACM CHAPTER**

S. Singhal presented on the ACM Chapter. The organization was established about a year ago at ECC.

The organization has general meetings as well as special presentations with speakers from industry.

ACM also took students to a weekend camp for coders that was filled with lectures regarding different areas of CS. ACM also has a paper contest with prizes for first and second place. There will be a programming contest on 5/20/17 with awards for first and second place. One long term goal for ACM is to send members to ICPC (Intercollegiate Programming Contest).

## **WOMEN IN COMPUTER SCIENCE**

S. Singhal is setting up a meeting to plan a “Women in Computer Science Day” for the fall semester. More women will be exposed to CS as well as inspired and it will provide a sense of belonging.

The CS department wants more diversity and encourages any ideas or potential resources or networks that would help inspire diversity. We want to promote diversity by creating role models.

D. Bonner highlighted the lack of women at his company. Raytheon recognizes this as a problem and is a strong proponent of inclusion. Companies will get better product if they foster an inclusive environment.

## **NATIONAL CENTER FOR WOMEN AND INFORMATION TECHNOLOGY SUMMIT**

L. Aaronson discussed the National Center for Women and Information Technology Summit (NCWIT) conference which starts on 5/21/17 in Tucson, AZ. There will be a live stream for those that cannot attend in person.

The summit is about building a community. Research shows that if someone is in the minority, they have an imposter syndrome. If they feel alone and like they’re struggling, its easier to give up. When they feel a sense of community, they’re able to learn quicker. L. Aaronson highly encouraged the advisory board to watch the live stream. It will also be recorded and posted online for those that cannot watch live.

## **PROGRAM REVIEW**

All departments must complete a Program Review. CS is on a 4-year cycle which starts this semester and ends by fall 2017. Some specific topics that will be covered include demographics, growth in faculty, additional classes, etc.

The department is looking at the program to see where we are and where we want to go in the future. One area that will be highlighted is the need for more full-time faculty members to keep the program running smoothly.

We are working on a survey to distribute to students and the results will be included in the Program Review. We will send the survey out this evening to CS Advisory Board members and request your feedback and/or additional questions that should be included by 5/22/17.

## **CTEA**

The CS department recently applied for mobile laptop carts through the CTEA Grant. At the moment, we've used our labs to its full capacity. We are hopeful we will get enough to have at least one laptop cart.

## **HIGH SCHOOL REQUESTS**

We have received four requests from high schools that want the CS department to teach our classes to at their school. However, we don't currently have enough instructors for this.

## **RECRUITMENT ADJUNCT INSTRUCTORS**

There is currently a recruitment for adjunct CS instructors. If you or your colleagues are interested they are encouraged to apply. Interviews are scheduled for the summer.

S. Singhal motioned to vote that ECC is in need of more full-time faculty support. K. O'Connell moved to approve this motion. S. Singhal seconded the motion. The CS Advisory unanimously approved.

## **CS DEGREE AND CS CERTIFICATE**

The general catalog mentions Assembly Computer Language, but CS 16 is not on the list of courses. The department is in an ongoing discussion on if we should add CS 16 as a required course, or as one of the electives for the certificate.

M. Beheshti recommended CS 16 be an elective.

Dean J. Sims will remove the phrasing from the catalog and add CS 16 as an elective.

## **ARTICULATION WITH CSUDH**

ECC has articulation with CSU, Dominguez Hills. CSUDH has Bachelors programs in Information Technology, Computer Technology, and Computer Science.

M. Beheshti will work with M. Ghyam to learn what classes students can take at ECC to help them with their degree at CSUDH.

In some California schools, Computer Science will start replacing the science requirement. We want to develop high school teachers that can teach science as well as computer science.

S. Russell discussed the desire to hold a workshop for teachers.

## **CURRICULUM**

New classes including Android, Beauty and Joy of Computing (BJC), and new courses on game programming will be presented to the fall College Curriculum Committee.

CS 0 BJC mimics the CS Principles class in high schools. M. Beheshti mentioned he has had success with a similar kind of class at CSUDH. CS 0 is still under development as we are confronted with the issue of impinging on CIS. The goal is to offer CS 0 without the trigonometry prerequisite. However, we are still trying to find the balance of the math requirement for this class.