EL CAMINO COLLEGE MATHEMATICAL SCIENCES
COMPUTER SCIENCE DEPARTMENT MEETING
October 27, 2016

Present: Edwin Ambrosio, Carl Broderick, Susanne Bucher, Greg Fry, Massoud Ghyam (by phone), Arturo Hernandez, Matthew Mata, Bonnie Mercado, Solomon Russell, Jacquelyn Sims, Satish Singhal,

SLO UPDATES

S. Bucher provided updates on SLO 3.

Revised SLO #3 for CSCI 1:

> CSCI 1 Problem Solving and Program Design Using C++: SLO #3 Identifying and Correcting Errors

> Students will correct errors in C++ code that includes using control structures (and nested control structures) including conditionals (like "if"), loops (like "while" and "for") and user defined functions (both void and value returning).

All were in favor of the revisions to SLO 3.

PROGRAM PLANS AND INPUTTING IN TRACDAT

Program Plans are due 11/15/16. M. Ghyam and S. Singhal will input program plans in TracDat.

S. Singhal recommended adding a lab technician dedicated exclusively to Mathematical Sciences to the Program Plan.

It was decided to keep the MESA CS facilitators as a recommendation.

S. Singhal recommended new computers in all labs that accommodate the advanced software. Dean J. Sims will check with Kris Numrich about the Academic Technology Committee's maintenance plan/schedule.

S. Singhal also recommended adding a lab or laptop cart of Mac computers to instruct students on Apple's new language, Swift. An alternative option would be to create a fully online course for Swift programming that can be taken by students that have Mac computers.

S. Singhal and E. Ambrosio recommended phones and tablets for the Android course.

Dean J. Sims made the following program plan assignments:

- S. Singhal - complete rationale for Mac lab or laptop carts. C. Broderick and M. Ghyam will assist.
- G. Fry – complete rational for full-time lab tech position.

- E. Ambrosio – complete rationale for new computers in all labs (including a maintenance schedule). M. Mata, M. Ghyam and S. Russell will assist.
- E. Ambrosio - complete rationale for phones and tablets needed for the Android course.

Plan to have a skeleton of the program plan input into TracDat by 11/15/16. Each request will also need budget details included in the rationale.

Dean J. Sims will provide additional assistance as needed.

AGENDA FOR ADVISORY BOARD

Dean J. Sims requested input on the agenda for the CS Advisory Board meeting that will be held on 11/4/16. The following agenda items were recommended:

1. CTEA application
2. Two new course proposals (Advisory Board to vote on this)
3. CS 12 fully online (Advisory Board to vote on this)
4. Review Hiring Prioritization Forms
5. ACM Chapter
6. Roundtable
7. CS High School Offerings
8. Lou Ann Lyon report on Transferring for a CS Degree

CTEA APPLICATION

The CS Department's first CTEA application was highly complimented. The application was successful because it was a team effort.

The department will request two mobile laptop carts for the 2017-18 CTEA application. The estimated cost for each cart is $100,000. The department will also request storage carts that will allow for laptops to be stored in the classroom. The storage carts would also charge the laptops and lock in place.

Dean J. Sims assigned all full-time and part-time CS faculty to teams to complete the CTEA application. The full-time CS instructors will be the lead and the part-time instructors will be invited to provide assistance as well.

The CTEA application is due 2/24/16. Dean J. Sims provided benchmark dates for the first draft, second draft, and final draft:

- First Draft Deadline: Friday, December 12, 2016
- Second Draft Deadline: Friday, January 20, 2017
- Final Draft Deadline: Friday, February 24, 2017

Each draft will be shared with the committee and the final draft will also be shared with the CS Advisory Board for suggestions.

SUMMER COURSE OFFERINGS

M. Ghyam suggested that we offer the same courses as summer 2016 and possibly offer Python. He also offered to teach CS 3 during the 6-week session.

SURVEYS

S. Russell discussed the surveys he distributes to his students at the end of each semester. The survey is a formal way to gather data on his students' experiences in class. It's completely anonymous and is done online. Students receive a grade for completion so most students participate. Questions include: GPA, workload, interest in the subject before taking the course, interest in the subject after taking the course, etc. There is also qualitative data where students can write comments.

S. Russell has made adjustments to his teaching based on suggestions that come directly from survey comments and results.

Contact S. Russell if interested in using this tool in your class.

LONGER BREAKS FOR CLASSES MEETING ONCE PER WEEK

E. Ambrosio recommended longer breaks for CS classes that meet once per week. The typical break for these classes is half an hour but he recommended extending it to an hour.

It's difficult for students to remain focused with a small break. It also helps the instructor keep up the energy level and provides more time to make adjustments to the lecture if necessary.

The department will not make adjustments to the spring 2017 schedule as it's already been printed, but this is something to consider when scheduling future semesters.

NEW COURSE PROPOSAL

New course proposals have been submitted to the Business Division. Some of the courses have started consultation in CurriUNET.

G. Fry recommended adding a number other than zero to The Beauty of Computer Science Principles class instead of calling the course CS 0. The department will review the current numbering system and decide on a number for the course.

M. Ghyam distributed a survey to CS students regarding their interest in CS 12 being fully online.

The informal survey completed in class had the following results:

- 60% voted to have CS 1 and CS 12 fully online
- 27% voted for the courses to be hybrid
- 20% voted classes should be on campus only

The survey completed online had the following results:

- 52% voted to have CS 1 and CS 12 fully online
- 37% voted for the courses to be hybrid
- Very few wanted the course to be on campus only

M. Ghyam is awaiting results from other instructors who distributed the survey link to their classes.

FALL 2017 SCHEDULING

CS scheduling for fall 2017 will be discussed via email.

NARRATIVES ON HIRING PRIORITIZATION FORMS

The hiring prioritization forms have been submitted. The Division is requesting two full-time CS positions. S. Russell will be the faculty representative at next year's hiring meeting.

CS JOB DESCRIPTION

The following changes to the full-time CS job description were requested:

"Full-time teaching assignment(s) in Computer Science which includes teaching courses in Assembly Language, Data Structures **and Algorithm**, UNIX, C++, JAVA, **Python** and Internet Programming as well as new computer languages that might emerge including **Swift and Android**."