# **Los Angeles Mission College**

## **CS and CIS Advisory Board Meeting Minutes**

**Friday April 17, 2020**

## Start Time 11:05 am

Zoom meeting hosted by vice chair, started at 11:05 am.

## Welcome

Dean Mora welcomed all, specially our industry partners.

## Sign-in

Vice chair reminded all to use the ‘Sign-in’ sheet and provide the name of their organization and their title.

## Approval of Minutes

We will get last year’s meeting minutes approved off-line, via email, in interest of time.

## CS & CIS progress report

### Cloud Computing program:

* Offered two classes in Fall 2019. This Spring, repeating them. We will schedule the third and fourth, in Summer and coming Fall, respectively. Expecting 10-20 graduates by Fall 2020.
* Cloud day initially planned for May 29, 2020 – we will revise date and format.

### Cyber Security program:

* Working on updating the Curriculum.

### Full Stack Development program:

* Archived Co Sci 408 and Co Sci 409 due to low enrollment.
* Have to update Co Sci 463 from MEAN (Angular.js) to MERN (React.js).
* No-SQL database is part of Co Sci 463. Perhaps have a separate course/lab for No-SQL.
* Want to explore which front ends, databases and frameworks are currently popular. Will create a generic course without mentioning specific tools or technology.
* Looking forward to higher enrollment numbers and completion rate.

### Computer Programmer program:

* This program is mainly for transfer students, so they may earn an Associate of Science while completing the first two years of requirements at LAMC.
* Prepare students for Oracle certificates.
	+ Java Fundamentals
	+ Oracle SQL Fundamentals.

### Non-credit courses:

* Created four non-credit courses: Exploring Computer Science Information Technology Careers, Everyone Can Code, Robotics Lab, and Introduction to Social Media - WordPress Blogs.
* Had plans to offer non-credit program this spring week. However, postponed to summer for now.
* Question from Salomon, do these lead to credit courses? Answer is yes. Salomon pointed out that it is feasibility in our Ed Code, to consider having non-credit courses as a prerequisite or a recommendation for credit courses.
* Question about using Zoom for non-credit in summer from Dr. Lewis. Answer, yes feasible. We need take into considerations about how to make the robotic kits available (checkout and check-in of equipment). Whether the lectures will be synchronous or asynchronous. It was recognized that we need to consider having virtual labs.

### Program Changes

Recently we completed a district-wide realignment of all our Co Sci courses numbers and names. Hence, we have to updates all our programs with the new numbers and names. The other reason for program changes is that we archived two courses, Co Sci 408 and Co Sci 409. Moreover, plan to archive Co Sci 407. More on this later.

### High School

Los Angeles Mission College has four core courses articulated and are available for ‘credit-by-exam’. Co Sci 401 – Introduction to Computers and Their Uses, Co Sci 407 – Programming Logic and Design, Co Sci 450 – HTML 5 and CSS 3 and Co Sci 453 – A+ certification preparation.

### New programs.

Currently, all new program creations are on hold due to staffing, Mobile App development and Data Analysis. We may continue to develop new courses in the meantime. Recommendation to consider developing Data Analysis as only one other college currently planning for it.

### Approval

Request for approval for advertisement dollars, for learning materials, for tutors, and for field trips made and received. Also approval to plan a Cloud Day.

## Programs archived.

Received approval to archive three programs. AA replaced by three new Associate of Science. In particular, the Associate of Science in Computer Programmer replaces AA in Computer Science. The other two are Certificate of Achievement in Microcomputer Programming and Certificate of Achievement in Microcomputer Applications Management. <Salomon Davila and Javier Rios>

## Program Updates.

Updating all programs due to renumbering of courses: Cloud Computing, Computer Programmer, Cyber Security, and Full-Stack Developer. Creating stackable programs, Skills Certificate (12 units) to Certificate of Achievement (18 units) and then an Associate of Science (30 units).

Discussed the three levels. Certificate of Achievement are transcripted, count towards funding purpose, good financial standing of our college. Skills certificate not included for financial aids. Skills count towards completion too, but do not weigh so heavily. Provides motivation for dual enrollment students. First certificate they gain, encourages them to move forward. I can do this! I can build on it. Easy to achieve Skills certificate, then they are motivated to get two additional courses to gain the Certificate of Achievement.

In general, there was an agreement that the program updates are relevant and making them stackable, providing multiple entry and exit points to students, is a good concept.

## Feedback from Industry Representatives

### Salomon Davila

For Cloud Computing, for student who finish the four AWS courses, there are pilots to help students be certified. In May, Cloud Practitioner certificate. In June, Certified Solutions Architecture. This will ascertain that our curriculum is the right formula for our students. Also will use social media, Linked In, Slack and other channels to track students’ career progress using Data Analytics vs. sending out surveys.

Data Analytics is a complementary to Cloud Computing. There is need for someone to take a lead to create the curriculum, courses and programs. Data Analytics is a promising occupation for Mission to take a lead on. Suggestion to have a new course on Data Lakes, Apache query, Portofolio, of Data Lakes

### Hagop Yaglian

Disney does have a internship program that they do every year there is a process for that I can get you information on providing to students on how they can apply for those internships, but I don't foresee that happening until probably next year.

His team is Technical Services and Support for the Walt Disney Studios, They have entry-level Help-Desk jobs, as they serve Disney client – over 40,000 users in Burbank area. Want to see students having working knowledge of scripting language – Power Shell and Mac and Windows Operating Systems. At Disney, there is also a non-technical interview where they just talk to the individual. They want to know that the person is able to present and communicate technical matter in a non-technical fashion.

He will introduce us to his counterparts in Disney for entry-level Computer Programmer, Cyber Security Associates and Data Managers.

### Steven Entezari

Oversees client services team for a vertical at Oracle. His team consists of integration consultants. Besides technical competency, they require the candidate to have of project management and resource management skills. Given the assortment of cloud software systems and software services can potentially interact with each other the would-be employee must have some experience with working with API’s in different languages, whether it's Python, PHP, Java, any of the above, and just being able to hack something together. Technology changes every day and you will be interacting with various clients and those various clients have different developers. So being able to speak on the subject of these integrations. Be able to design some solutions. A high fidelity prototype. Moreover, be able to communicate to different audiences, technical and non-technical.

### L. V. Mc Coy

He is the practice Director for Data Security for the Americans at Wipro Limited. “…it's fairly easy to find someone who is competent at various IT skills, it is difficult to find someone who is competent and can clearly articulate that but non-technical audience.”

His hires are Senior or higher. He wants to know that if someone higher up asks the new hire a question, you are not going to be embarrassed.

LV McCoy: Once we have gone through the interview process, and they think the interview is over, I will ask them, “What kind of server, you run it at home?”

### George McKinney

Has been a business consultant, software developer, worked primarily in enterprise software development since last 15 years. Working with AWS cloud computing of late. I like the direction of the entire program here alignment of course number rings across the entire district.

Thoughts on course alternatives in web development: After reviewing the attached PDF (see attachment), Oracle APEX website and their training videos, I think it is suitable for CIS students seeking to become business analysts.  It allows for low-level direct database SQL queries and tools to integrate Rest API data sources. It is a straight-forward HTML, CSS and editing tool. As a content management system, it makes data-driven websites and reports seamless. It is not a software development tool per se but allows for its users to create web content without knowing the intricacies of creating web applications.

My thoughts on the Full-stack development courses. First, startups and fast-moving technology driven companies favor modern, full-stack software development. To replace the archived web development course, a MEAN and/or React-based course MERN course would be ideal. Students should have exposure to Typescript programming and/or JSX/ES6. These are the main compiled JavaScript approaches to full-stack development today. In addition, NoSQL databases like MongoDB and DynamoDB and even PostgreSQL would be good. Data visualization and mapping are nice exercises. The ability to work with JSON data via Rest APIs with tools such as Swagger, Postman, or even curl are marketable. For backend development, Node.js is standard. However, for students interested in machine learning and data science, Python is required. I think these would be in addition to the foundational courses in Java and Oracle SQL (the gold standard in enterprise). MySQL and PHP are also important, in fact, WordPress continues to grow in popularity among small and medium-sized businesses. Yes, the LAMP-stack is probably best-suited for learners who are already working with the technology and need to sharpen the skills to continue their current work.

## In Closing

Dean Uliana had closing comments, thanking faculty and industry partners for attending this meeting for helping us make sure our curriculum is up to date. That our curriculum provides the skills and training that our students need so that they're ready to go out into the world and start their careers and have those multiple entry and exit points.

Appreciated partners mentioning that industry expects student to do things on their own, and not just in school or not just what an employer pays them, but doing things on their own to stay updated and that it is vital, especially in Cyber Security. She is hopeful that we can collaborate with them to provide our students some type of work-based learning, internships and job placement opportunities.

Dean Mora thanked everybody for the support in keeping our curriculum up to date. In particular thanked vice chair for completing all the forms that are required to keep programs current and relevant.

## End Time: 12:47 pm