

# Computer Science and Application Division

## Annual Advisory Committee Meeting

### April 21, 2018 at CE222

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**Present:** Reza [REDACTED], [REDACTED] Brenda, Marcus [REDACTED], [REDACTED] Chanda, Anna [REDACTED], Stephanie [REDACTED], Isamil [REDACTED], Ruby [REDACTED], Parvaneh [REDACTED], Steve G [REDACTED], Mary G [REDACTED], Stacy K [REDACTED], Skip C [REDACTED], Diane M [REDACTED], Pat M [REDACTED], Ashok [REDACTED], Yuen Y [REDACTED], Bodara W [REDACTED], Monet S [REDACTED], David S [REDACTED], Vicky S [REDACTED], Danny O [REDACTED], Helene P [REDACTED], Laurent P [REDACTED], Manish P [REDACTED], Bill W [REDACTED], Larry W [REDACTED], Ruby K [REDACTED], (Industry, faculty and community members).

Committee chair Anna Chiang calls to order at 12 pm.

Due to privacy of members, please do not post publicly.

#### **Summary of CAOT minutes**

CAOT faculty Pat M, Ruby K, division chair Anna Chiang and other four students who work in the legal field are present. Committee members are discussing the following:

- Moving CAOT classes on-line to accommodate working adults. The enrollment of CAOT online classes have gone up 30%. Faculty members use Canvas and

CCCConfer to meet students online. In addition faculty offer on-campus orientation, weekend on-campus office hour to assist students in the transition from on-campus to on-line class format.

-Committee members all agree to create an EXCEL spreadsheet course since all legal secretaries must have the skill of MS Office Excel. Committee members also talked about the importance of "Adobe Acrobat" being used in legal office. The division will be offering CAOT114 Adobe Acrobat starting Fall 18 and will make it equivalent to CAOT84. Anna C mentioned that the division has created a new course CAOT48 which is required for curriculum model certificate of achievement called "Computer Retail Sale and Support".

-The division is also working on creating another curriculum model certificate of achievement called "Business Information Worker" which will combine CAOT office technology and CSIT application courses. The division has a partnership with the department of Education, County of Los Angeles offering BIW program including CAOT Keyboarding, Word Processing and other office application courses to a special students population including single parent. This certificate will motivate students to complete all required courses and earn a college certificate. The committee has unanimously voted for supporting the new certificate of achievement in Business Information Worker.

### **Summary of CSIT & Engineering minutes**

**Anna C**-Talked about the number of enrollment, college certificate awardees and industry certification awardees of each degree & certificate program we offer. Anna wants to bring the attention to committee members, for example there are 200+ students entering to programming track each year, but less than 15 students filing petition for college certificate. It is because most of students in programming track focus on completing low division requirement and transfer to 4-year university without bothering filing petition for certificate, faculty need to encourage students to file petition for college certificate because the new funding formula is based on completion of associate degree or certificate of achievement. Anna also mentioned that about two third of college certificate awardee in our division are "network and security" track, but students have no confidence in taking industry certification exam thus there are 50+ college certificate awardees from "network and security" track but only 15 industry certification awardees each year.

**Kabwe C** -talked about the Senior IT Positions opening in his organization, and the WLAC Classes/Programs in-line with requirement for these positions. These positions will need to implement, customize and administer a Metropolitan Area Network (MAN) and complex Local Area Networks (LAN) such as Virtual

Local Area Networks (VLAN), Wireless Local Area Networks (WLAN) and provides technical advice to Local Area Network support staff on complex issues involving network design, configuration, and performance.

Another positions is assistant computer and Network Support Specialist  
WLAC Classes/Programs in line with requirement for this Position are Network & Security Management, Comitia Certifications (A+, Network +, etc.), Microsoft Networking, Business App. And Databases the one West LA has missed are Storage Management, skills on Voice Systems & A/V Systems.

**Brenda D** talked about Year-Up program that provides 6-month IT training including computer operating system, hardware & application then place students for internship with their corporate partners. She uses an example of Cedars Sinai hospital as the example of desktop support technician which requires skills to be able to develop solutions to basic to intermediate technical problems related to desktop support; be able to work in a team setting and follow general directions from team leads. Also be able to accurately and effectively communicate subject-matter specific and /or technical topics to end users. The education requirement is associate degree or some college course work with A+ certified and Windows OS related certification.

**Anna C** talked about the new plan for Year-Up students is to offer Network+ and Security + training during the summer and winter intersession, before internship program. During the period of internship, Year-Up students can stay on the network & security track by taking CISCO, or pursuing Computer Science track by taking programming or do Web & Database track by taking HTML class or pursuing transfer by taking G.E. courses.

**Vicky S** talked about West's new Amazon Web Service curriculum, the division is working on creating the certificate of achievement called Cloud Computing-Amazon Web Services Solution Architect in response to the growing demand for highly skilled cloud solutions architects. Large and small corporations, business, nonprofit organizations and civic & governmental agencies are migrating traditional data centers to cloud solutions due to the sufficient cost saving cloud computing offers as well as the flexibility of deployment options. Vicky has a hand-out that lists two of the most valuable IT certifications in 2018, number two is AWS Certified Solutions Architect-Associate ; number four is AWS Certified Developer both have annual salary \$110K+.

**Anna C** talked about the four courses are pending District approval then will move to the State. The division is working on grouping these four courses and creating the certificate of achievement in Cloud Computing-Amazon Web Services. Once the

State approves these four courses, the division plans to offer the first and the second AWS courses in fall 18. The division will also reach out to high school students promoting these highly in-demand job skills to fulfill the requirement of AB288 dual enrollment initiatives.

**Bill W** talked about how his organization implement Amazon Web Services, his topics include the following: AWS use case, infrastructure overview, cloud skill sets, certifications and lessons learned. For use case-AWS is used to supplement "on-prem" hardware. His organization has been moving workloads to cloud to reduce "on-prem" congestion, like some special projects that require hardware with short use life. Bill also talked about the cloud skillsets and certificate being validated for hiring criteria. His organization has been using multi cloud support to avoid vendor lock-in, with competitive advantage & connectivity redundancy.

The committee members are all very excited and strongly support AWS curriculum being developed and delivered in the near future. Faculty Marcus Butler, Manish Patel, Larry Wang, Al Kami, Bill Williams and Anna Chiang have expressed an interest to receive the AWS faculty training and will involve the course delivery on-campus and in high schools. YearUp corporate engagement director Branda Dupre said she was intrigued by the great news of AWS certificate, will inform their corporate partners about West's AWS curriculum and would like to see Year-Up cohorts take AWS classes once available.

The committee has unanimously voted for supporting the new certificate of achievement in Cloud Computing-Amazon Web Services.

**Parvaneh G** talked about the engineering curriculum development. She has created the following new engineering courses for the past years: EET 123 (Intro to Arduino), Eng Gen 101(Intro to Science, Engineering and Technology), Eng Gen220 (Electrical Circuits), Eng Gen225 (Digital Circuit Analysis) and EET 123. The division is also working on creating the following certificates of achievement:

-Certificate of Achievement in Essentials of Robotics and programming-this certificate will require CS900(Robotics), EET123 (Arduino), Eng Gen101 (Intro to Science, Engineering and technology) and CS903 (Python) total 11 units

-Certificate of Achievement in Electronics Engineering Technician-this certificate will require Eng Ge 101, CS900, EET123, Eng Gen 220 and Eng Gen 225 total of 16units

Parvaneh also talked about as there are different types of engineering, the Engineering Faculty Discipline Review Group (FDRG) has developed four different model curricula and each one feeds into one or more majors at the baccalaureate

level. The four discipline clusters are 1. Mechanical, Aerospace, and manufacturing 2. Civil 3. Electrical 4. Computer & Software. The division has expressed its interest in developing the following two tracks :(3) Electrical and (4) Computer & Software.

The committee has unanimously voted for supporting the new Engineering curriculum including Certificate in Essentials of Robotics & Programming and certificate in Electronics Engineering Technician.

**Ashok P** talked about the computer science P sequence for transfer students. Starting with CS902, CS939, CS917, CS990 and CS936, they all meet UC/CSU low division transfer requirement.

**Stacy Kirk** talked her company hiring our CS graduate who has been a great asset to her software company; Stacy is expanding the service to the area of Cyber Security area. Anna said that the division has a pool of students who have completed system security and network security training, this group of students would like to get internship opportunities.

**Skip C** from Apple talked Apple Academy "Everybody Can Code". Coding is essential to help students thrive in a future driven by technology. When you teach coding, you also teach skills like critical thinking and problem solving. We created the comprehensive Everyone Can Code curriculum with lessons on iPad and Mac, teacher guides, and apps to make it easy to teach coding in your classroom. Because we believe coding isn't extracurricular — it's part of the core curriculum.

**Anna C** talked about the division has reached out to several local high schools to promote course offering in mobile application development. Apple Academy provides course material, teacher guides and lab exercises online for free to instructors and students. The division is working on creating a certificate of achievement in Mobile Application Development Essentials. This certificate responds to the growing demand for skilled mobile application developers, large and small corporations, business, non-profit organizations are rushing to ensure that their customers have direct access to their services and products through mobile applications. This has created a wide range of employment opportunities. The division will tap into this market and help students lean mobile application development so that they can succeed in their career and educational goals.

The committee has unanimously voted for supporting the new Certificate of Achievement t in Mobile Application Development Essentials.

**Manish P** talked about LA High Tech Coding Boot Camp (HTCBC) at WLAC, an innovative response to address the acute industry need for coding and web

programming boot camps. In Spring 2018 - West Los Angeles College held a coding boot camp in partnership with industry partners. Over 100 student interns from 6 Campuses participated in the boot camp and a majority received internships with startups and local companies in Downtown Los Angeles and Silicon Beach. West had 24 students.

**Danny O** graduating from associate degree of Web and Database Management talked about how West has helped him get hired by Pepperdine University as senior application developer. He has learned SQL database, Javascript browser side programming and C# server side programming at West. He has applied what he learned to the current job responsibilities including moving managing project versions, moving from webforms to MVC, SQL relational database and APIs-Paring JSON,etc.

**Marcus B** talked about Netlab implementation & Strong Workforce Project.

NetLAB – Advanced IT Delivery Platform

- Facilitates rapid new course implementation
- Significantly reduces equipment cost
- Significantly reduces replacement cycles
- Significantly reduces lab administrative hours
- Instructors can focus more on teaching, not lab management
- Students get personalized lab environments
- Netlab & swp

NetLAB – Advanced IT Lab Delivery Platform

- A+ - Desktop & OS Support
- Cisco – Networking Hardware
- Cyber Security – SWP
- EMC – Storage Hardware & Technology
- Oracle/SQL - Database
- Palo Alto – Firewall
- Red Hat Linux/Linux+ - Desktop & Server OS
- VMware – Cloud Computing Technologies

NetLAB – SWP Is Collaboration

- Create a Centralized Hub using NetLAB
- Southern Cal CC's will Utilize
- Reduce/Eliminate Duplication

- Better Allocation of State Resource
- Leverage NetLAB Expertise
- Biggest Focus is Cyber Security
- Coastline College – Designated Official Hub
- West – Secondary Unofficial Hub

The meeting was adjourned at 3:10 pm.

