



PROGRAM AGENDA (Meeting Notes)
Computer Information Science Summer Advisory Meeting
Monday, July 29, 2024; 2:30 pm

ATTENDEES: Ric Wilson (Apple), Lynell Wiggins (Compton College), Rashid Yahye (Compton College),
Yahya Sayeed (CS DH)

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- Welcome Introductions
 - **Rashid Yahye**, Chair/Faculty, Business and Industrial Studies Guided Pathways Division
Apple Device Support Discussion

✓ **R. Yahye** initiated a discussion on the development of cybersecurity and Apple support certificates, highlighting the need for advisory meetings with outside experts to ensure certificate approval. This included Apple coding certificate of achievement and the transition to credit courses.

- Curriculum Review
 - Mobile Applications Development Certificate
 - Cybersecurity Certificate (potential courses on page 2)
 - Database Management courses

✓ **R. Yahye** also addressed the talent shortage in computer-related fields and showcased cybersecurity and database management certificates from El Camino College. The meeting concluded with plans to present the discussed certificates to the curriculum. **R. Wilson** affirmed R. Yahye's focus on cybersecurity in the Apple space, but clarified that his interest was towards Apple device support and he hoped to see us cultivate more talent in this area.

Key Questions Regarding Program Curriculum

- ✓ Should we develop a cybersecurity certificate?
- ✓ What courses do we need to review and develop for our certificates?

- Delete the Divide (Interns) - Cooperative Work Experience
 - Recruitment opportunity
 - Program Mappers
 - 2023-2024 eneral College Catalog

Y. Sayeed believes it is a good idea to establish a cybersecurity focus. R. Wilson agrees. Sayeed recently published a research paper in IEEE for digital forensics. He shared that there is a domain in forensics called e-discovery. Another name for this work is legal tech. It's a weird collaboration between the legal guys and the techies. So he work on the techie part and used to process the ESI data of the enterprises involved in any litigation. Let's say Apple sue Samsung for copyright issue, they file a litigation and each one have to hire an e-discovery vendor. R. Yahye discussed the forensics element of the cyber security certificate and noted Compton has most of the classes already. **Y. Sayeed** affirmed moving in the Cybersecurity the direction. **R. Yahye** mentioned the CIS program would receive support in developing the classes from **Y. Sayeed** through his industry knowledge.



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agenda item

discussion notes

✓ A major supporter of the Apple Swift programming language, **R. Wilson** supported its transition to the credit side of the College and encouraged the broadening of the opportunity through our current dual enrollment focus and Mobile App Certificate of Achievement

✓ **L. Wiggins** added that many of the HS districts wanted to offer the CIS 161-165 sequence, but were waiting until the courses were offered as credit to do so. L. Wiggins shared regarding the emphasis on work-based learning. Discussed the need to prioritize internships as a part of the CIS program to increase learner interest. 8-2-24 event, Delete the Divide

Cybersecurity Certificate of Achievement

The Cybersecurity Certificate is designed for students who wish to learn how to investigate, handle and prevent cyber-attacks. The curriculum will provide students with the knowledge and skills needed to protect data, computers, and networks from unauthorized access. Students will learn to analyze computer networks, identify possible threats, and implement protective measures. Upon completion of all required courses, students will have the basic skills required for entry-level positions in Cybersecurity.

To earn a certificate, the required courses must be completed with a minimum grade of "C". At least 15 units must be completed at El Camino College.

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Required Courses:

- AJ 142 - Introduction to Digital Evidence 3 units
- CIS 13 - Computer Information Systems 3 units
- CIS 40 - Personal Computer Support and Networking 3 units
- CIS 119 - Introduction to Computer Security 3 units
- CIS 120 - Digital Forensics 3 units
- CIS 121 - Cybersecurity Programming with Python 3 units
- CIS 122 - Ethical Hacking 3 units
- CIS 137 - Computer Networking Fundamentals 3 units

Database Management Certificate of Achievement

The Database Management Certificate is designed for students who wish to learn how to effectively design and develop relational databases, capture, store, retrieve and analyze data, and acquire programming skills in relational database management systems (RDBMS) and structured query language (SQL). The courses included in the certificate provide a foundation in database theory and design along with topics like data mining, "big data" and data analytics. Successful students will be prepared to apply for entry-level positions in government, business and industry as data analysts, database designers, database developers, database administrators and database programmers.

For Gainful Employment program information, please visit www.elcamino.edu/academics/business/cis.

Required Courses:

- CIS 13 - Computer Information Systems 3 units
- CIS 18 - Systems Analysis and Design 3
- CIS 28 - Database Management Using Microsoft Access 3 units
- CIS 29 - Advanced Database Applications 3 units
- CIS 80 - Database Programming 4 units
- CIS 84 - MySQL Database Programming for the Web 3 units
- CIS 119 - Introduction to Computer Security 3 units