



## Division of Business and Career Education Advisory Meeting Computer Science

November 3, 2023  
10:00 am-12:00 pm

### Minutes

*The purpose of the advisory committee is to provide input and make recommendations to the faculty and administration on changes in direction for the career education programs. These recommendations include suggestions for improvement, expansion, student recruitment, innovation, and/or equipment commonly found in industry that is associated with the pertinent career program.*

#### Industry Attendees:

Ajay Malhotra, Speridian Technologies, Customer Success  
Rosie Matias, CTE TOSA, Garden Grove Unified School District  
Christopher K. Lee, Elevance Health  
Arie Shen, Board Member, Fractional CxO

#### GWC Attendees:

Bern Baumgartner, Faculty & Dept. Chair, Accounting, Business & Computer Science  
Dorsie Brooks, Dean, Business & Career Education  
Herb Cohen, Faculty, Computer Science  
AJ Edmonds, Faculty, Computer Science  
Sara Ghadami, Faculty, Computer Science  
Kristy Ho, Faculty, STEM Counselor  
Jill Kiefer, Division Coordinator, Business & Career Education  
Yvonne Portillo, Faculty & Dept. Co-Chair, Counseling  
Cristian Racataian, Faculty, Computer Science

#### 10:00 CALL TO ORDER

- Welcome and Introductions
- Zoom Etiquette & Recording

#### 10:10 PROGRAM UPDATE

- College Enrollment Status
- Labor Market Data
  - Dean Brooks shared information on the current living wage in Orange County and how entry level computer programming occupations align with that need. (See attached presentation.)

#### 10:15 CURRICULUM REVIEW

- Current Degrees Offered:
  - CS ADT to a CSU
  - Liberal Arts degree pathway
- New Programming Certificates
  - [Python Programming Certificate](#)
  - [Java Programming Certificate](#)
  - [C++ Programming Certificate](#)

#### 10:40 RECOMMENDATIONS and ACTION ITEMS / COMMITTEE APPROVAL

The committee recommends the following curriculum for approval:

- [Python Programming Certificate](#)
- [Java Programming Certificate](#)
- [C++ Programming Certificate](#)



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### 10:45 DISCUSSION and CURRENT INDUSTRY ENVIRONMENT

- **What trends are you seeing in hiring?**
- **Has AI influenced your business?**
  - Discussion regarding the impact of AI on software development and QA testing, with Ajay noting significant job disruption. Christopher mentioned his company's struggles with 'buy versus build' in relation to AI. Ajay also emphasized the importance of alignment with cloud providers in machine learning. The team acknowledged the ethical considerations in AI development and agreed to consider offering a course in programming AI, as proposed by AJ.
- **Are there any skills that new hires are lacking?**
  - Dorsie asked about the skills and qualities that are important when hiring employees. Arie emphasized the importance of relationships, teamwork, and communication skills, in addition to proficiency in the required area. Arie shared a success story of using AI to revise the company's mission and vision, resulting in a significant reduction in time, money, and resources. The use of AI in reporting was also discussed, with Arie expressing doubts about the feasibility of training data scientists in this rapidly evolving field. Herb expressed concern about unintentionally discouraging students from learning software languages by showing them how to engineer their programs.
- **Is there anything you would like to share with us?**
  - Herb, Ajay, Dorsie, Arie, and Christopher discussed the changes and trends in teaching programming and software development. Ajay highlighted the demand for cloud engineers and data science, and they agreed to resurrect the .NET C-sharp course due to its relevance in the market. Dorsie raised the issue of new hires facing skills and knowledge gaps, with Ajay responding that a foundational knowledge gap exists. Dorsie also emphasized the importance of data science and cybersecurity in the job market. The panel discussed the importance of practical projects in courses, alternative education paths, the value of third-party certifications, and the significance of soft skills. The group acknowledged the interconnectedness of different fields, including business, computer science, and data analytics, and suggested introducing introductory data analytics to their program.
  - The team, led by Dorsie, discussed the possibility of offering a project management course that includes learning how to work in an agile environment, suggested by AJ and supported by Christopher. Ajay agreed, emphasizing the course's potential to enhance the students' employability. The discussion also covered the role of AI in programming and the challenges for two-year colleges to stay relevant. Ajay stressed the importance of critical thinking, future planning, and understanding the user experience in the programming curriculum. The team also emphasized the importance of developers understanding the business purpose behind their coding work, leading to the idea of creating a multi-disciplinary area of study. The team agreed to meet at least once a year to discuss potential new classes or projects, and Dorsie agreed to provide a database of real-world projects for colleges to use in their curriculum.

### 12:00 ADJOURNMENT