Vital Link/Joint Regional Advisory Committee Meeting
Computer Information Systems/Information Technology (CIS/IT) And Computer Science (CS)

9:00am – 12:00pm
November 6, 2020

ZOOM RECORDING: https://www.youtube.com/watch?v=R_L5BYDsqKw&feature=youtu.be

ADVISORY COMMITTEE MEMBERS PRESENT:

- • Dr. Brian Dozer – President, Vital Link OC

- • Rachel Valentine, (Operations and Recruitment), Vincit California, Inc.

- ● Mike Gentile, (Cybersecurity) – Founder, President and CEO of CISOSHARE

- ● Brian Anderson, (Telecommunications/IT) – Founder, CEO, Telecomprehensive Solutions

- ● Manish Bhardia, (Cloud/Virtualization Consultant) – Think AI Corporation

- ● Ajay Prasad, (Web and Digital Marketing) – GMR Transcription Services

- ● Charlotte Augenstein, (Regional Director for Employer Engagement) – ICT-DM LA/OC Regions

OCC FACULTY PRESENT:

- Gabriela Ernsberger (CS/CIS/IT Department Chair)
- Pam Barvarz (CIS/IT)
- Maryann Watson (CIS)
- Stephen Gilbert, Hatice Aydin, Kathryn Rodgers, Justin Jang, Douglas Cole. (CS)

    I.   PANEL DISCUSSION TOPICS:

o Emerging trends and changing standards in the industry

o New material, product or workplace methods being developed

o Current and future job market in Orange County

o Curriculum and Program alignment with entry level positions per field

o The most important job skills wanted in an employee

o Weaknesses in skill sets of current job applicants

o Alignment with in-house training available in industry

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• Review and Ratification of Existing Programs and Program Student Learning Outcomes (PSLO's)

The committee reviewed the program outcomes of existing local and approved certificates, and made the following recommendations:

Network Technician:

PSLO: 1 Completion of this program of study will enable students to acquire the skills needed by professionals in information and communication technologies to support a converged network that carries voice, data, image, and video traffic. Successful completion of the program will prepare students for entry-level employment as network technicians in a variety of settings.

- Committee Recommendation: The committee ratified the program curriculum and PSLOs as is, and suggested no changes to the curriculum at present.

Cloud Computing and Virtualization:

Due to the recent retirement of faculty and historic low interest and low enrollment in the Cloud Computing classes, all classes required for these certificates will be suspended. However, because the industry demand and relevance of this program are very high, it is recommended that the program be adjusted and offered again when possible.

Business Information Worker (BIW) Program

PSLO 1: Use a computer operating system and computer applications for word processing, electronic spreadsheet creation, database management, multimedia presentations, and electronic personal management with competence.

PSLO 2: Achieve personal development and responsibility for entering the

job market.

- Committee Recommendation: The committee did not suggest any changes to the existing program, noting that he OCC BIW career pathway is aligned with the California statewide program developed by the ICT-DM Sector and will continue to adhere to their guidelines.

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Web Design Program

PSLO: Students who receive the Web Design Certificate of Specialization will be able to create dynamic web pages.

- Committee Recommendation: The committee suggested adding an introductory course on Cloud Applications to the program curriculum. Other program elements and curriculum changes were approved, including the proposed suspension/retirement of the following three classes which will be removed from the program due to historic low enrollment and lack of relevance to current industry standards and job needs: CIS A128 - Intro To Dreamweaver 2.0; CIS A132 - Business Multimedia and Graphics 2.0; CIS A232 - Digital Video for Business: Adobe Premiere Pro

Employment data

o BIW Certificate Program

▢ Due to the nature of the program, which teaches students office skills needed to be successful in today's businesses (a solid foundation in Microsoft Windows and Office, strong digital and Web literacy skills), detailed data on employment projections and median pay cannot be provided, as there are a wide variety of jobs in business and government that would require such skills. The CCC Information Communications Technologies and Digital Media Sector Team, 2019, provides the following information:

• Demand Statewide (Job Openings): 278,700

• Demand in Orange County (Job Openings): 15,610

o Web Design Certificate Program

▢ Median pay (year 2019): $73,760 per year/$35.46 per hour

▢ Typical entry-level education: Associate's degree

▢ Work experience in a related occupation: None

▢ On-the-job training: None

▢ Number of jobs (year 2019): 174,300

▢ Job outlook (years 2019-29): 8% (much faster than average)

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REVIEW OF LAST ADVISORY COMMITTEE RECOMMENDATIONS

• The items listed below were recommendations given during our previous Advisory Meeting.

o Include data analytics in all programs where possible.

o Teach how to use software that can collect data, find patterns and extract valuable insights to optimize performance in any business.

o Enhance curriculum to help students improve needed technical skill, i.e. Excel.

- We have implemented these recommendations by ensuring that Excel is taught in multiple CIS classes and these courses are included as requirements for the BIW Certificate:

o   Add curriculum to help students improve communication skills.

   • Office Procedures and Business English classes are included in the BIW Certificate Program

• Due to the campus closure resulting from the current pandemic situation, no competitions were able to be offered for help students hone their presentation or technical skills this year.

R**EVIEW OF NEW PROGRAM PROPOSAL/DEVELOPMENT**

• BIW Certificate Program revision per ICT-DM Pathway recommendations:

   o Shorten Level I Certificate from 16.5 units to 12 units.

   o Add Level II BIW 18-unit Certificate.

   o Plan for Level III 30-unit Certificate can be found at:
   https://ictdmsector.org/wpcontent/uploads/2019/03/C-ID-Crosswalk.pdf

• Web Design Certificate Program

   o The committee emphasized the importance of knowing JavaScript. This was pointed

   out in previous advisory meetings, which led us to add a second JavaScript course to

   the program a few years ago.

   o Rachel Valentine approved all topics being taught in our program and suggested

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adding an introductory course in Cloud Applications.

INDUSTRY UPDATE & EMPLOYMENT TRENDS

• Rachel Valentine from Vincit California

o An intro course on Cloud Applications would be a great addition to the Web

program.

o Basic familiarity with AWS, Google Cloud or Azure could benefit the students.

o JavaScript is essential to a Web program.

• Charlotte Augenstein from ICT-DM LA and OC Regions

o Cloud computing can certainly enhance the Web program.

• Mike Gentile from CISOSHARE

o Important and necessary skills:

o Basic knowledge of MS Office applications

o Keyboarding speed and accuracy

o Special emphasis on learning pivot tables in Excel.

• Manish Bhardia from Think AI Corporation

o Skills that impact daily productivity:

o Basic knowledge of MS Office applications

o Keyboarding speed and accuracy

OTHER COMMITTEE RECOMMENDATIONS

• Continue with coursework focusing on MS Office Applications – There are 600,000 companies in the United States that use MS Office productivity applications (Outlook, OneDrive, Word, Excel, PowerPoint, OneNote, SharePoint and Microsoft Teams.)

o Keyboarding speed and accuracy - Companies might start measuring speed when

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evaluating candidates.

o Continue offering the Web design program, emphasizing JavaScript;

o Create an introductory course on Cloud Applications to enhance the Web program.

o Emphasize to students the importance of specific targets such as Mastering the JavaScript language, keyboarding speed and accuracy, developing high level skills for using MS Office Applications, and applying for internships to get on-the-job training.