

Business Partnership Council Meeting Minutes

Computer Science

January 26, 2018

8:30am

ETA 101

ITEM 1. Community Sector Collaboration

Discussion: Dr. Bruce Campbell opened the Business Partnership Council meeting talking about the community sector collaboration initiative that the Governor of Florida requires. Dr. Campbell added that the initiative aims to understand what the community college are doing in order to meet the needs of employers in the area. He acknowledged that Business Partnership Councils are addressing that question but his office is going a little further by putting together *Community Impact Partner Summits*; these two-hour summits are industry specific and business partners, advising counsels, chambers of commerce and related organization are invited. The Computer Science and IT Community Impact Partner Summit's tentative is being planned for the end of March or early April.

Action: Dr. Bruce Campbell requested the council to complete a survey at the end of the meeting.

ITEM 2. Program Review of Networking

Discussion: Prof. Hammond (Computer Science faculty professor) began the conversation talking about his internal assessment of every Computer Science program that PBSC. His assessment on each program included: what the current programs leads to in the field, which college credit certificate(s) is embedded into it, and what the other player like Valencia College and Eastern Florida State College are doing for the same program. Prof. Hammond added that both of those institutions have a track system where students are able to pick a path with little or no room to deviate from the path. The pathways can be broken into specializations like web specialist, data, IoT, and others. In addition, Prof. Hammond explained that the department needs to look at each CCC and modify it at the course level to what the BPC think is more beneficial or needed.

What we need is for the council to give us some insight on our networking program, which currently, is our most stable program. Once we polish the networking program, we can then look at the rest.

Action: The BPC council provided the feedback requested and the additional feedback will be collected via email.

ITEM 3. Discussion on Cisco College Credit Certificates (CCC)

Prof. Hammond explained that the CCC have to reside within the 60 credits and that we currently have five CCC's within our networking program. Prof. Hammond added, "We have CCCs on Cisco;



is there a demand for Cisco, or just a brand name that is recognizable?" Jose Ortiz – people with no experience might not know what Cisco is. Prof. Hammond mentioned that other programs in different institutions have let go of the brand, like Oracle because in some cases is a general course that happens to use an Oracle platform. Do we need the flexibility or the branding?

Bill Vernon: what is the outcome? Who is hiring your students? Prof. Hammond: As of today, we do not know. Bill Vernon: every company that I have work for have used different network technologies. Branding gives false expectations that he/she can only work with one technology. Jose Ortiz: Although we offer cisco every semester, we have been unable to fill the more advance Cisco courses for 2 years.

John Howard: Remove the branding is the way to go, what we want to for the students to have the foundation. During the coursework they might be working oracle but the foundations is what it is important.

BPC Chair Olivia Witkowski: How can apply the fundamentals outside Cisco technologies is more important. Prof. Hammond: Eastern Florida removed the branding, they have a few courses in Cisco but not branded as such. Specialization wise, Eastern Florida have Cybersecurity.

BPC Chair Olivia Witkowski: the Cisco certification is tied to the Cisco CCC. Do you have other? Does Java programming is tied to other certifications?

Prof. Hammond: we have some issues with the labels. What we are going to do is create a specialization on Java programming that is tied to a certification.

BPC Chair Olivia Witkowski: if I come across a resume and see the Ethical hacker certification, I know the questions to ask and what to expect, but not from the BAS program of PBSC.

Prof. Hammond: we need to address every outcome, what things we have to give up welcoming other.

BPC Chair Olivia Witkowski: are the CCC's tied to a vendor specific certification?

Jose Ortiz: No, not to a vendor.

ITEM 4. Program Mapping: Industry comparison for curriculum alignment

Prof. Hammond: There is a Networking system technology A.S. and within that, there are 60 credits and that includes a list of outcomes (benchmarks). Those outcomes are also part of the CCC's.

Jose Ortiz: If all these courses are aligned well, those students that are in the network administrator might also earn two or three CCC's.

Bill Vernon: How many students do you have in all program? Is 1000 students a reasonable number?

Jose Ortiz: Yes, and they are divided in 3 A.S. degrees, programming, internet services and network administrator.

Prof. Hammond: Internet services is not growing in enrollment and everyone that runs that program has low numbers. The success and the completion numbers are low.

BPC Chair Olivia Witkowski: that is a red flag for me, because web development is in high demand.

BPC Chair Olivia Witkowski: the way is setup programmatically; this is more the infrastructure of the web services and the web domains. That might be the problem, a perception problem.



Jon Howard: that now, falls into the job of the network team. If you see how things are moving into the cloud, you do not necessarily need to have that expertise internally.

Prof. Hammond: We are looking at either drop it or keep it.

Shari Elessar: Software development or just the course skills of computer programming are not what the market is. The market is a whole bunch of other things, support specialist, technical engineers, people who can help with integrations, and more. There is a completely empty place where the market have a huge demand for Computer Science degrees that are not programmers. This particular group can be that internet services technology and cover the rubric that is missing from the market. You have currently a program were you can fill it in with the market demand.

Prof. Hammond: I need every bit of input, we need that. In this case we need to leave this one for next year.

Jose Ortiz: So, we should go back to the Network Administration because I see you included links from Valencia College and Eastern Florida. What these institutions have that we should replicate?

Prof. Hammond: Valencia has one of the most successful program in the network administrator. They have the best numbers. Perhaps we can modify some names, and built in some specializations that meet the needs.

Bill Vernon: Ok, where is the course that is going to teach systems thinking, critical thinking, program management, problem solving, and time management? Those are the skills the students are going to need when they walk into a company.

Prof. Hammond: We have those. Students are now required to take First year experience class where they are taught critical thinking, finance and everything that will help the student through college.

Jon Howard: When we are hiring, entry level or junior people, I do not want specialists I want them to learn our particular technology; if they are too specialized, it may lower their opportunities to get an entry-level opportunity. Example: Cisco or Oracle, there is people now who have been doing that for a long time that are not leaving those jobs. Project management is important and English composition are very important. Specially to communicate with customers and they should be part of the curriculum.

BPC Chair Olivia Witkowski: we are talking about program mapping. Are you (Prof. Hammond) satisfy with the information we are providing you? Because what is the outcome of the program mapping.

Prof. Hammond: If somebody takes that specialization, is there local demand for it?

BPC Chair Olivia Witkowski: we have two position available. We expect two years of experience designing and building interactive interfaces, solid understanding of modern software design patterns, mastery of foundational technology, web mobile game, direct experience with API, web services, and experience launching products in a team environment. This is some of the requirements we are looking for and they are very generic. These requirements is what others in the industry are looking for.

Prof. Hammond: that is for the Programming Program. There are share coursework between the web services and the mobile app focus. There are some overlap over these two.



Jose Ortiz: I guess if we look at the objectives of some of the courses, we can map the requirements of jobs being posted.

BPC Chair Olivia Witkowski: It sounds like we can use someone's job description as an example for the requirements of a networking position. Anyone brought one as an example?

Fabio Rincon: I brought one. Most of the time I focus on the mid-level and entry level positions and we look for networking basics, lan, wan, vlan, active directories, some management, operating system management and deployments, understanding of wireless technologies, network diagnostic tools, scripting languages, understanding of Microsoft servers, computers and mobile devices. When teaching Microsoft server, if you are staying with server administration do not add exchange or SQL.

BPC Chair Olivia Witkowski: we retire our desktop software, we are 100% cloud company now.

Jon Howard: I think inside the networking we have to talk about cloud, Azure, AWS, and somehow rolling that in to the curriculum.

BPC Chair Olivia Witkowski: If you introduce AWS or anything similar, there are a few certifications that can be mapped into the curriculum.

Jon Howard: that is where our company is going as well. We might not be there now but that is where we are going.

Fabio Rincon: If you have somebody who knows cloud and knows how to manage it; that is, what the industry is looking for. There are three big one: Microsoft, Google and Amazon.

Jon Howard: then you have government cloud.

BPC Chair Olivia Witkowski: yes, is the same concept, so if you know how to work with AWS you will understand the government cloud.

Jose Ortiz: What about a Cloud+ certification? Is that something worth pursuing?

Ron Howard: Yes, that is a great idea.

BPC Chair Olivia Witkowski: Yes, I would definitively like to talk with the individual. The question is where does the AWS, Google, Azure fit? We do not have to decide that now but we can discuss at the next meeting.

Associate Dean Kimberly Allen: Jose can send the curriculum framework link to all council members so you can take a closer look and examine what the outcomes are, and see what it is the best fit.

Action: Jose Ortiz to send the curriculum framework link to all council members.

ITEM 5. Identify student project opportunities for use in the innovation lab

Jose Ortiz: What projects we can create that are related to our coursework but it is more specific to the needs to your company.

Associate Dean Kimberly Allen: I think the President recognizes that we need something like the innovation lab. The industry know that our students are going to receive the education but by the time you employ them some things are probably outdated and you have to train them on something else, so I would like them to have hands-on experience so they can apply what they have learned.

Jose Ortiz: It would be great if we can design cloud related project.



Jon Howard: What other languages do you teach besides Java?

Prof. Hammond: Python, Java script, C++, C#, Server side, on different levels.

Jon Howard: I have two projects that we can do cloud base for authentication purposes. We actually start with and we do not even need the computer lab up and running yet.

Action: Jose Ortiz and Jon Howard to work the details of the mentioned project.

ITEM 6. Updates: Program Director

Jose Ortiz: We had some photogrammetry equipment that we need to move out of the storage area but now the room has been made available to us. The project is moving and I have seen a lot of progress in the last few weeks. Therefore, it is good news.

Associate Dean Kimberly Allen: We thought this was going to be a very easy project, but facilities had another idea and it turned out to be something bigger. The Provost got involved and the project is moving forward. One of the things we have been promised is the logo of the Panther in the back wall. We are planning the budget for the next fiscal year, so if you can identify things like software and hardware that would be beneficial to you and the students, please let us know. We want you to feel proud of what is there, we want our students to be proud of it, and we want it to be innovative.

Jon Howard: there is a software called lightstream for casting over the TV from your tablet or computer. If students are running a presentation they will not need wires, they can open the application and run it.

BPC Chair Olivia Witkowski: For telecommunications, I recommend Zoom. It is free, and it will run for 40 minutes unless you pay for premium, which is unlimited.

ITEM 7. Next Meeting Date/Time

ITEM 9. Meeting Evaluation

Adjourn

10:07am