

## Quarterly Mobile Apps, Business Intelligence, & Database

**BILT Meeting August 27, 2013**

### Meeting Minutes

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#### **Bunker Hill Community College**

We looked at Android, iOS and Windows phones so we start with 2 Android, 2 iPhone, 2 Microsoft, 2 Web App courses. Businesses have said that any Web App you do need to be able to show up on a phone.

Bill- Is this a standalone course or is this part of an existing degree/certificate program? Is this something someone of the streets can walk in and become a mobile app developer?

Paula- They will be stackables that can be completed in 9 months.

Bill- How many students do you have in this program now?

Paula- We don't have any students in it yet because it is a new program. So we have Android using App Inventor and Java. These are the interactive design techniques, you want to give that to them first so they have the skills to go into the other courses. It constantly changes there are new things out there all the time. This was to give you an overall view so you can see how it is flexible. So we looked at it & took everything you said in the KSAs to put this together.

Bob- With Blackberry, do you think there is enough out there to have students spend time on it?

Paula- In 2012 maybe, now we're not so sure.

Ann- These are general guidelines this is what businesses told us, it was better than nothing so we used it and it's our best interpretation of what they said is important to incorporate.

Michael- Where you have Operating System, you could just say current system.

Paula- These are the things covered in it. So this is the database and we are not doing BI. Database is oracle based.

Are the businesses happy recognizing BHCC degrees and certificates

Matt- there seems to be some resistance in the conversations earlier. The reason why we have the ability to design and manage and go through the mobility process- last year 25% of things occurred through mobility devices. I see a trend going where a lot more mobility will be going, a lot more of the ecommerce platforms all have the mobility translators, when you write your website on a regular

website it translates it. This is really important this is where the trends are going and will be there long term.

Matt- Bob Cronin was mentioning something about blackberry.

Paula- We need to get that.

Matt- Can you talk a little bit about your courses when you look at your certs and degree it feels very data oriented where is the UI? One of the biggest problems I have is people putting together an attractive UI?

Paula - That is in the interactive design course.

Bill- Where is CSS Java script?

Paula- That where a degree comes in with a combination of web and programming.

Bill- When will this actually be available as a certificate course for students to sign up?

Paula- BHCC will be putting it up in the fall. The short term certificates will be available now. The 60 credit degree will take some time to get all the pieces together.

Bill- So if I went to your website now and I could sign up for these classes?

Matt- This certificate does this fulfill their requirements for their first year. How many credit hours do they get them too?

Paula- The stackable is 12 credit hours and the other one is 9 credit hours.

Matt- How is the transition?

Paula- The database and bi will have some connectivity but mobile apps stands alone right now.

Matt- We're calling it stackable but there is nothing to stack on to it. Is there a reason for that?

Paula- Yes, we have the first one and we are working on the second to stack on top. That is what we're working on next.

Ann- Do you think BHCC covered everything that you all said was important?

Chan- I believe so.

Matt- I recognize that BHCC knows their community, and that this is the right first stackable, but would like to rapidly encourage BHCC to make the stackables to drive those who want to do programming.

*Businesses recognize BHCC certs and degrees*

**Moraine Valley Community College**

John Sands and Michelle August- We weren't sure what level we were going to adopt but these made sense.

Michelle- the first ones you see here are for the database. The students would be a jr level developer, and the last one the mobile app developer combines iOS and android. There were areas that only wanted to focus on one or the other but I thought they should be focuses on both. These are all certificates but they do flow in to a AAS MIS.

John Sands- we have gone through the entire internal process- went to the state last fall and got approval a week ago, so it will be in our catalog soon and we will be teaching them.

Michelle- at the end of both semesters they could have both certs if they wanted.

Matt- Can you help me understand this because I cannot wrap this around my brain? In column H there is a certificate program that says iPhone Programming and then iPhone Developer. What is the difference between the two?

John- keep in mind we had to create stackable and we had to name them something it doesn't mean one .

Michelle- the first one is a junior programmer and the other one is the programmer /developer

John- what we try to do is identify the skills a student needs to get an entry level job

Matt- I can only speak to Texas, California, Hawaii- I can only say that I speak to

Chan- we use the term specialist

John – I like that

Associate programmer and lead programmer-

Matt- I am in agreement with associate and then programmer or developer. The other challenge is that iPhone is very limited you actually coding for the iPhone/iPad mini.

Michelle- The actually name is iOS. What we heard is that the web developers wouldn't be working with android or iOS; they are creating web apps and working on UI

Michael- BBA I think that it is as important as C#

Michelle- Andriod must have java but the Ios can chose their language.

Stacia- when you worked with your local board did they agree with the ksas

Michelle- we didn't have this list but we told them what we visioned and it happened to line up.

Ann- in may of 2012 we weren't just looking at mobile apps, we were looking a database, BI and mobile apps. We did not include web development. But it is something that I think we need to add.

Chan- m hiring manager

Michelle- this is why our curriculum never stays longer than 2 yrs.

Ann- are the businesses happy to recognize what they are doing

Matt- I really like the layout it is well done. There is a little concern that you didn't have the KSAs when you started that. It is my understanding that as we are a group of colleges.

John- yes we have had a program for years so we gave it a face lift. Part of the grant you don't have to do all areas. So we chose mobile apps.

Matt- since this was an established programming.

Michelle- we are running ios for the first time this semester.

Matt- ok so these are new

Michelle- the courses were just approved two weeks ago- 12 students in ios programming .

Matt- so you have no android right now

Michelle- those run in the spring.

Matt- technology moves a lot faster than 24 months. If you are only touching basis with then every 24<sup>th</sup> months. I would suggest meeting quarterly and an advisory board. If there are hiring managers that are going to be hiring your students I would think you can just blow that off. I think that we are all here to get students jobs. I think it is great. Just change the name to associate. I think there are some oppurtutnites with HTML5. You have a lot more maturity in your path, I would like to see how that all stacks together

Bill- earlier I thought I heard the

John- in this grant we have 4 curricular areas- and we have leads in each area so what we .

Matt- so is the same curriculum with slightly different names so the lead group has created curriculum and shared it. Or is it a free for all so that I am not getting a different course.

Ann- yes and yes Collin we are doing the ios work. The fact that one college has something and another that has something we are all sharing we are all different college it does not mean that we are going to walk step exactly what the others are doing.

Bill- who has the certificate that is going to produce

Ann- we all do

Matt- one of the powerful things of this organization is having a nation wide recognized certificate specifically so that business leads around the globe go hey I want you guys to get that certificate. A

specific ios and android certificate eventhough they are serviing their own areas. So if they moved out of Chicago to boston then the certification would mean the same thing there too.

Ann- I don't think that this industry is that mature yet, There is a different between industry certifations and a college certificate. I understand what you are saying but I do not think we are there yet.

Michael- I think its great to get these KSAs saturated in to the curriculum

Bill- rather if it's a certificate or degreeat the end of the day it should be mapable stackable and portable.

Mike P- From a curriculum

Ann- what im prediciting in july of 2012 im predicitn you will want to change it today we are shooting at a moving target. When we are looking to get this curriculum them the curricular process if I was to say or mandate that this consortia has to use the same curriculum .

Matt- I think what we need to do is get some similar naming convention so that we know the curriculum has the same ksas . As IT moves forward. The one thing kicking my butt as a mdm and app security are any of these programs cover that. Having the programmers or developers understand how I create something that cant be tampered with.

John- we have heard that and it is our next focus area.

Mike P- you are looking at hiring how important is Security or CCNA.

Matt- I cant find that but I need that.

Bill-

Matt- I think the professor that was just saying. But my comments were saying from row 3 to row 17 there are a whole list of classes what I think is critical is that security be a piece of it.

Bill- like project manager should be a piece of all of them .

Matt- from my perspective you are going to need us to recognize that.

Ann- does any one disagree to with that

Businesses recognize MVCC certs and degrees

Bellevue-

Sylvia- Were going into the database and customizing data and loading it into a data warehouse.

Bill- those taking and technology path not an analyst path. There are a lot of tol available today that weren't 5 yrs ago that make our lives easier so you do have a BI certifacte for those not interested in the degree.

Sylvia- yes they would start at the database analyst- we use sql server tool , and reporting tools reporting services. So the ksas that were presented to use and I was not at the meeting.

Matt- before you jump in to the next session can you talk about more how many credit hours.

Sylvia- we are on a quarter system which we are the only school on the consortium that are like this so they can.

Bill- how many students

Sylvia it varies- we can have 15 – 20 in a quarter,

Bill- communication skills are imperative –undersnading what organizations need from their data.

Sylvia- the second English writing classes

Chan-

Kevin- its not really good for findings it understanding what the businesses are looking for from the beginning. If I don't understand what the end user is trying to prove and if I cant communicate correctly to get the findings then I can do my job. I don't expect that you can teach every business that there is. But should teach the basics then it helps with the outcomes.

Chan- there is database analyst 160 focus on requirements for

Matt- to help this process the ability to listen with your ears is to help them

Bill- that could be covered in project management fundamentals

Matt- and I think its how you translate it. I don't think Bill is saying you need to go through a full pmp but everyone in IT is a program manager in some way . If you do it in a project and you hold student responsible in that fashion then it will be very beneficial in the real world when they start getting their ques from the business.

Sylvia- we do that in a couple of classes not just one-

Matt- your walking into my other point, if they walk in thinking they don't think they do need to understand it is a waste of time and money.

Stacia- from the perspective of that chart the expectation of the person that would be supervising- I think it is important we think about who is going to supervise these people at each one of these levels. When we talk about the population of the grant and then moving forward what is it at the folks at the next level have. What we deal with in my business with people at different levels is that they don't know how to ask that questions. We have created a course inhouse.

Bill- maybe because the course is geared toward the wrong user- kudos to your certificates.

Judith- I just wanted to add someone asked a question we have table and business IT 209

Sylvia- crystal reports

Ann- Is there anyone who does not recognize Bellevue

Businesses recognize Bellvues certs and degrees

Collin

We have two AAS degrees and 2 certificates

Elizabeth- on the mobile

Ann- Bellvue is publisher material so it can not be shared in the grant since it is not open sourced.

Elizabeth- The ksas for mobile the android hit some of them and the ios hit some of them but there are some that we do not hit because it is different techonology. Were talking a lot about web services we would you a tag in to yahoo.

Chan- Costco is looking at ewbservices that returns

Elizabeth- we do that in the advanced class but we have to do things that are free public data that you don't have to sign up for. Strong CSS . Mobile web and dealing I do not usually use IIS so we use apache not heavy administration but if we are using php then we use it.

Ann- there are various people who teach these different courses so this was passed around and was a group effort.

Elizabeth- they are always having to research how it changes in programming. We do not do unit testing in practice only in theory.

Ann- Programming I look at it as 2 courses java

Matt- I think that this is a little more comprehensive then the other. Why is Collin taken a much more comprehensive approach.

Elizabeth- we looked at different look at the different tings they needed they need a programming base.

Matt-

Bill- I think it would make it more marketable.

Ann- you will see bunkerhills in a bit

Elizabeth- that's what we are looking at you cant cover the mobile in one course. Do they have a 9 credit.

Paula- 16 credits for fiancial aid

Elizabeth- ours is 21 we could drop 3 hours to get to 18 we have a year certificate.

Ann- Elizabeth what they are want to have the lower level and the one we have. Can we wait til this afternoon to talk about this. Can we get a recognition of what we did then we can talk about what we can do to go forward.

Bill- is the ultimate goal of the DOL to create a model.

Ann- no the ultimate goal is that the certificate degrees have our certs and ddegrees recognized by business then they go into a doman for other schools ot use them. This has been themost frustrating area since it has continue to change. The focus of htemorning is for you to agree that yes we listened to you.

Businesses- how many students are in this program

Ann- the numbers are pretty good in the first, but the upper classes the students seem to dwenndle

Elizabeth- the first class is full the second class didn't make and the third made.

Bill- why is that

Ann- it could be scheduling. We have been tryig to adviteris and adding tutoring to help build retention.

Elizabeth- 1315 has been fulfilled

Bill- what is the mix of students

Elizabeth- it's a wide mix, the students I have are students coming back who think they are going to make the next million dollar app and then I have studens right out of high school.

Bill- did the grant project the number of students in the pipe line

Ann- not per track 3175 participants. We are putting about 1500 students to work it's a very probalmeatic number because if a student works part time at mcdonalds or as a student aide then they do not count in that number.

Businesses recognized Collin's certs and degrees

Rio

Stephen Hud- Mobile apps programming do two sepeperate stackable CCLs. C++, local area networks class. SQL some campuses may do Oracle. CC IT Entrepreneurhsip 2 courses. The classes with the gen ed leads to Associates degree. KSAs review Do a fair amount of group work in my courses.

Bill- this looks great good job will we get in the material that were sent out . So this is new correct.

Stephen- mobile app is new we have taught mobile app with our java course, so we started with android.

Bill – this is offered in the fall



Stephen – yes we go them fast tracked for the grant and we go through the process to make them official past the grant.

Bill – good for you!

Michael- take that mobile app programing- and move it down

Stephen- In our web graphics area all our pre reqs with promissoin from dean to get in .

Ann- does any one see any reason why

Business recognize Rio's certs and degrees.

Burning Glass-

Bill- well done

Stacia- what comes out of job ads it hard to quantify skills- there is a demand but there always seems circular demand. Work experience is not on here but businesses say they want these skills listed but they also want a minimum of 2 yrs experience sweet spot is 5yrs.

Debra- how many internships do you think stuents should have 2 was the answer.

Michael- most of the colleges have engl 101, but I think it's important that in every course that the communication skills are reviewed. So that they are able ot communicate to defend their data.

Ann- I have had the benefit of having 3 other BILTS, they were really intent on that students should have a project that is strongly documented on a portfolio, how important to you?

Chan- I set student expectations with students that this is what their interviewer will be looking at.

Deb- Trying to help students to understand that IT is not just about the gadgets but that it is about problem solving. Students almost rebel at the beginning but at the end they feel good about it.

Paula- One of the porjects that we do is bring small non profits in and the students design and app using app inventor for them. (service learning ) we tell them that it may not be a working app but will be a prototype for them to use. One group was so good that the non profit actually used it and they did a whole right and one of the students has gotten a job based on the work that they had done with this project. We have one student who sat through the class the whole time and didn't do anything.

Deb- its important to introduce them to the problems going on so that they could figure it out and know what it will be like in the real world.

Ann- how would you suggest we do team work?

Stephen-

Ann- if someone answers why are you applying and they say just a job you woont get hired you need passion

Stacia- you have to continue to work on that person but If there is training inbedded to the curriculum then it would help them

Kevin- I think that its important that you present students with repetitive input on presenting.

Ann-

Stacia- I think what we have been saying it comes back to this how can you demonstrate on paper and in person that these students have these soft skills.

Ann – would you like to talk about trends first and then get down to specifics. What do you think about programming.

Adrian- not just an increase but a sky rocketed if you could generate and app developer with critical thinking and analytical thinking then there are 10 to 15 jobs for them. Boston and silicone valley are the hubs for mobile, we have the most active.

Bill-

Matt- What were the trends

Ann- review of trends that were talk about.

Matt- from a mobility view we are seeing mobility 20% of the time is focused on brower ability 80% something 32% of that 80% is games. National average of ios and android devices. A lot of time is being put on face book and social media.

Judith m- boeing their biggest concern is security but it helps having mobility access on the floor.

Matt- they now have an app if you want to be anti social home depot has an app for you.

Chan- hybrid of system, we have been doing a lot of work in archetecual enterprise. The whole purpose is to make sure that

Adrian- checking facebook at work

Chan- it has become such a problem that when your in a meeting that if you look at your phone your out of the meeting. It is becoming a stigmatic in the company.

Michael- had a heated disgushing, etiquette don't play games or get on facebook while you are at work. There are deffently the dos and donts.

Matt – I think it has to start at school , they seem to get to do their playing at school so they think its ok once they are employed.

Ann- I think playing games in class varies by instructor.

KSAs on a go forth basis

Ann- we are looking at about 13 months potential more what would you like us to do what kind of incremental changes would you like us to make? Standardization of curriculum.

Matt- I believe whole heartedly like a pmp certification in project management if we could get certain words that your certified in x or y that is tangible to a business person like me. That I know this person has a certain set of skills behind that. If we can brand that across the nation and each school can have a little twist for their area but whether I am getting a cert from bhcc or Chicago then I still know what skills they have.

Deb- great

Robert- being an education dean that we could resolve world peace before we could make that happen because with each school is different. I think that it would better benefit the students if we could do that.

Matt- I agree that the community colleges are there to serve the community, by taking an approach that im going focus on this community and awwbe damned that I can about anything else, but we do this with cisco already, I think that is a more national view im looking for. We are not looking for world peace but as an industry person that would be important.

Robert- for state approval we have to approve that there is high demand within their service district.

Bill- is the agreement on the baseline foundational skills, they should be the same across the nation. We are recreating the wheel in every state. I agree that the community college should be tailored to their community.

Ann- Let me propose that we listen to what the business people suggest and give it a go and try- we do have a limitation.

Deb- could we come up with a common baseline of student learning outcomes. So that it is not compromising the schools ability to get things approved.

Bill- exactly

Judith- I think you should start with updating the KSAs

Ann-

Adrian- From the ksas itself it is definitely a baseline, the most important things missing, is user interface, if I was to add anything it would not just be user interface but add the tools to do it.

Michael- I think it would be important to get a group of us together again to go over the ksas and update them.

Adrian- in sept the entire UI for ios will be changing, apple is already changing their guidelines.

Robert- So ann the recommendation would pull a focus group together again to go over the KSAs.

Ann- Im happy to do that but the grant ends in 2014, how much can we implement this in 13 months.

Deb- if it ends in 13 months even being able to have something to share

Paula- its more of updateing what we already did

Adrian- propose to have another review of this, mobile user designer , book coming out

Adrian- ter1 intro teir 2 more indepth teir 3 someone whos going to be commimented long term.

Agile analyst-

Ann – are we willing to have a follow up for virtual update, we can send out a doodle, Thursday and Friday. Service oppurtunities for businesses.