CIT Advisory Board Committee Meeting
February 27, 2014
9:00 am

Attendees:

Bill Airey, BSBP
Brandon Buck, Former CIT Graduate, Software Engineer @ Twin Engine Labs
Zac Burson, Bossier Parish Schools
Jason Cooper, Assistant Professor, Content Knowledge Lead/Project Advisor
Ron Cotschoulos, Kobus Technologies
Leslie Fife, LSUS
Laura Goadrich, Dean of TEM, BPCC
Jeremy Green, Kobus Technologies
David Griffith, Webster Parish Schools
Dalia Gumeel, Assistant Professor for CIT, BPCC
Tom Hopkins, Instructor for CIT, BPCC
Gary Hollatz, Chief Information Officer, Computer Services @ BPCC
Eddie Horton, Assistant Professor for CIT, BPCC
Jennifer Parish, Program Coordinator for TEM, BPCC
Chris Rondeau, Associate Professor for CIT, BPCC
Alexander Sanchez, Multiband
Chris Shaw, Instructor for CIT, BPCC
Kevin Smith, Vice President, Logic Nation
Dr. Stan Wilkins, Vice Chancellor of Academic Affairs, BPCC

Shortly after 9:00 am Chris Rondeau began the meeting and welcomed everyone. Roundtable introductions began and everyone introduced themselves.

I-BEST
Jason Cooper is the lead of this grant. He explained that BPCC is the lead on this regional grant. This program is a new, accelerated model that integrates basic skills instructions with technical training. It offers skills training and employment opportunities in multiple sectors sharing a common Information Technology (IT) foundation. The coursework content is driven by industry and employers and will allow you to enter the workforce earlier with your new skill set. The credentials from this grant flow into the two degrees that we already have.

The Committee on National Security Systems (CNSS)
This program is going through a total revamp at the national level. We are working hard to be sure that we continue to meet all of the objectives so that we may continue to be recognized for meeting these DoD standards. We have until April to map these.
Microsoft Academy:
We have completed the requirements to become a Microsoft Academy. Eddie Horton is heading up this project and explained that we became an academy in December 2013. If everything goes as planned, we will offer our first Microsoft classes in the Fall of 2014. We will be offering 3 new classes designed to prepare a student for a MCSA certification (see handout). In addition to these classes a technical certificate (TCA) in MCSA will be offered to students who complete all four courses. Courses are 3 hours in length with a 1 hour mandatory lab, and will use the official Microsoft Curriculum.

Chris Rondeau explained that students having certifications can turn into dollar signs. Kevin Smith explained that his company (Praseas) is very proud to have certified employees. He explained that this academy will help promote students. Eddie Horton explained that as a long term goal, he would like to phase this into an online system and make a TCA out of this. We then can go after some of the non-traditional students who may even already have their Bachelor Degree and can take classes for the TCA only. For those who already have some Microsoft Certs, these courses will count toward there continuing ad credits.

Lab Updates:
We are taking a new move. It is felt that all students in the CIT programs should have access to their own machines so we have decided to NOT replace all the towers in our labs. Instead we are adopting the policy that CIT majors must have a laptop (see flyer for specs). We have written multiple technology proposals so students that cannot afford their own will have machines that can be checked out or use the few towers that will be left in the rear of the rooms. We would like for our labs to have less desktop computers to have more room to do any lab. We also have virtual programs that our students use to where they can work on their classwork from home. Test out is one of the software programs our students use to do this.

Kevin Smith explained that CSC is bringing in a lot of jobs. Chris Rondeau explained that he has had a conference call with CSC about doing some internships with them in the future.

Next discussed was DEFCON that is funding through our NSF grant and has been for multiple years. During the first week of August, 4 students from our program will be going to Las Vegas to compete in a competition/confERENCE. The student will compete in at least one competition and go to multiple break-out sessions. Once they return from the conference they will give a presentation in class on what they learned.

Preparation for Accreditation Visit
In one year, Spring 2015, we will again have the accreditation team here to visit to look at our programs to be sure that we continue to meet their standards. Over the next year we will need your help and input to be sure that we have everything ready. More details to come as we prepare.
Internship Handbook
As we discussed in our last meeting, updates were needed to make the handbook current. Those changes have been made and the updated book can be found at: http://pcc.edu/lem/advisoryboard/documents/internshiphandbook.pdf

Internships
Each of our programs continues to have a capstone internship project to help students gain real life experience. It is felt that is a crucial part of our program. If your business would like to help with this process please let us know. Also, we are always looking for new businesses to partner with for internships, if you have suggestions please let us know. If you have any problems with any of the interns, please let us know.

Short & Long Term Goals for Cyber Program
As our programs have merged we need to relook at our program goals to be sure that they still fit the needs of our program. (See the handout). As discussed in the previous advisory board meeting, we have now moved to only 2 degrees instead of 5. The goals that we have come up with are the same for both degrees.

Kevin Smith discussed that LA Tech has been involved with CSC for a few years and have redone their curriculum to meet the new 800+ jobs coming up.

Laura responded with that we have a mapping program with all of their programming classes. We meet with LA Tech every year to make sure that our mappings are appropriate.

Chris Rondeau asked if there are any concerns about the goals being the same.

Jeremy Green stated that he thinks that we will have problems with the accreditation people when they return if we show that we have the same goals for both programs.

Leslie Fife stated that when the software is different between the two you would have separate reviews.

Laura Goadrich explained that ATMAE considers the different degrees as separate degree and we do need to build that out a little more.

Kevin Smith suggested to come up with uniquely different goals and bold them out to define the two as separate degrees.

Leslie Fife stated that what is more important is how each of them are implemented in each concentration.

Zach Burson suggested that we add something in the goals along the lines of industry leaders.

Leslie Fife suggested to put something more specific such as measurable goals.
Degree Plan Changes
Last year we made changes that started in the fall term for merging and consolidating our degree plans. The two resulting plans are under the major heading of Cyber Technology. We have a concentration in Network Security and a concentration in Programmer-Analyst. (see page 3 and 4). With this change we still have students that were previously in the old degree plans that we must honor. We have a list of approximately 80 students that are still eligible for those degrees before we see those plans totally dissolve. We will be adding some more electives to the programs.

Zach Burson stated that he would like to comment on the I-Best. They have had excellent feedback and especially with students with disabilities. Students have been going to I-Best from the dual enrollment. The program will help with successful employment.

Brandon Buck asked why Intro & Advanced are offered in the same semester. Dalia explained that we do this to keep the students and from this enrollment has gone up. Students like the 8 week classes (B term – 1st 8 weeks and C term – 2nd 8 weeks).

Zach Burson commented that the late classes work well for the high schoolers and that there is a high demand of this. He asked that in the future, we send him a list of the upcoming offered classes so that he may pass on the information to the high school students.

Laura stated that in we will be offering the Java and Programming classes in the Fall for dual enrollment.

Alexander stated that there is a difference between Network + and Network Defense and they are totally different from each other. Network + was amazing as being an intro class but Network Defense was a lot harder with more detail for networking.

Kevin Smith made a motion to accept the changes for the 2 concentration degrees as written. Jeremy Green seconded with no opposed.

Laura expressed her gratitude for all attendees and their feedback. If the committee has further suggestions please feel free to email or bring them up at the next meeting.

The meeting adjourned at 10:01 a.m.
Introductions

Division Highlights

The Committee on National Security Systems
This program is going through a total revamp at the national level. We are working hard to be sure that we continue to meet all of the objectives so that we may continue to be recognized for meeting these DoD standards.

Microsoft Academy
We have completed the requirements to become a MS Academy. Eddie Horton is heading this project up and will provide more details.

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New Items

Preparation for Accreditation Visit
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Short & Long Term Goals for Cyber Program
As our programs have merged we need to relook at our program goals to be sure they still fit the needs of our program. (Please see page two for current list)

Degree Plan Changes
Last year we made changes that started in the fall term for merging and consolidating our degree plans. The two resulting plans are under the major heading of Cyber Technology. We have a concentration in Network Security and a concentration in Programmer-Analyst. (see page 3 and 4). With this change we still have students that were previously in the old degree plans that we must honor. We have a list of approximately 60 students that are still eligible for those degrees before we see those plans totally dissolve.

Wrap up and Closing remarks / Comments Suggestions
Cyber Technology with concentration in Network Security –

Short-term:
- Review current software and equipment to see what enhancements can be made.
- Encourage student participation in competitions and organizations to network with others.
- Build mentor and internship relationships with local business.

Long-term:
- Build relationships with area high schools through Dual Enrollment in order to recruit future students.
- Develop articulation agreements and partnerships with universities and colleges to facilitate student transfer.
- Keep curriculum relevant to industry needs by interaction with employers and the advisory board.

Cyber Technology with concentration in Programmer Analyst –

Short-term:
- Review current software and equipment to see what enhancements can be made.
- Encourage student participation in competitions and organizations to network with others.
- Build mentor and internship relationships with local business.

Long-term:
- Build relationships with area high schools through Dual Enrollment in order to recruit future students.
- Develop articulation agreements and partnerships with universities and colleges to facilitate student transfer.
- Keep curriculum relevant to industry needs by interaction with employers and the advisory board.
## Associate of Applied Science in Cyber Technology
### Major in Network Security

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### Developmental Courses:

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### Freshman Year

**1st Semester**
- CIT 102: Prob Solving and Prog Tech
- CIT 112: Support of Emerging Tech
- ENGL 101: Composition & Rhetoric 1
- Physical Science Elective*
- Humanities Elective

**2nd Semester**
- CIT 101: Network Essentials
- CIT 115: Network Defense
- CIT 170: Microsoft Windows Servers
- CIT 172: Linux Servers
- MATH 101: App Alg for Col Stud* OR
- MATH 102: College Algebra

### Sophomore Year

**3rd Semester**
- CIT 130: Website Design I
- CIT 121: Routing and Switching OR
- CIT 210: Advanced Networking Topics
- SPCH 110: Public Speaking
- CIT 279: Information Assurance
- Security Elective**

**4th Semester**
- CIT 225: Network Security Design
- CIT 289: Computer Forensics
- CIT 299: Cyber Technology Internship
- Behavioral-Social Science Elective
- Security Elective**

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### Total Hours: 60

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*Advisor*

*Physical Science Elective: SCI 101; CHEM 101,107; PHYS 105,106,107,110,111; PHYS 201*

**Security elective must be chosen from an approved CIT course.

Behavioral/Social Science Electives and Humanities electives may be selected from [https://www.bccc.edu/catalog/current/undergraduate Degrees.html](https://www.bccc.edu/catalog/current/undergraduate Degrees.html).

* For transfer to a four-year institution, students are strongly advised to take MATH 102 instead of MATH 101. Students must seek the assistance of their advisor to determine the appropriate mathematics course.

* May not be a humanities course  *May only be used for AAS degrees  

Revised 7/2013
Associate of Applied Science in Cyber Technology  
Major in Programmer-Analyst

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*Physical Science Elective: SCI 101; CHEM 101, 107; PHSC 103, 106, 107, 110, 111; PHTS 201

**Humanities elective must be chosen from ENGL 201, 202, 205, or 215; FREN 101, 102, or 201; HIST 101, 102, 103, 104, 201, 202, or 263; HUMAN 201****; 202**** or 205****; RLGN 201 or 202; SPAN 101, 102, or 201; SPCH 110**** or 113****

***Behavioral/Social Science elective must be chosen from: ANTH 201 or 202; BADM 201 or 202; GPHY 101 or 102; POSC 201 or 202; PSYC 101, 102, 201, 202, 205, 210, 211, 220, 225, 230, or 250; SLGY 201, 202, 203, or 207.

Total Hours: 60
In December of 2013 Bossier Parish Community College was proud to become an official Microsoft Academy.

Beginning in Fall, 2014, BPCC will be proud to be offering 3 new classes designed to prepare a student for a Microsoft Certified Solutions Associate (MCSA) certification. In addition to these classes a technical certificate (TCA) in MCSA will be offered to students who complete all four courses. Courses are 3 hours in length with a 1 hour mandatory lab, and will use the official Microsoft Curriculum.

Courses will begin with CIT 170, 171, 175, and 176 in the Fall followed by CIT 177 and 178 in Spring. These courses will be offered on the 8 week scale and will alternate between online and traditional face to face classes. Students will take the appropriate certification exam after each course, and on completion of the 3rd course students who are successful will be given the MCSA cert by Microsoft. Course descriptions for these new classes can be found on the back.

With the addition of the Microsoft Academy the CIT department is very proud to be an official IT partner for Cisco, Microsoft, and CompTIA.

The following certifications are now offered by the CIT program:

- A+
- Linux+
- Security+
- Net+
- Project+
- Storage+
- CCENT
- CCNA
- Microsoft:
  - 72-680 Windows 7
  - 77-418 Word 2013
  - 77-420 Excel
  - 70-411 Admin Win2k12*
  - 70-412 Adv Win2k12*
  - 70-410 Config Win2k12*
  - (all 3* = MCSA)
- CertiPort IC Core
- CIW JavaScript
- EC Council CHFI
- CISSP
- OCA Java
- CIW JavaScript

For more information about the Academy please email Eddie Horton, ahorton@bpcc.edu or call 318-678-6504.
CIT170: MCSE I - Installing Windows Server
Prerequisite: CIT101 or CompTIA Network+ Certification
Co-requisite: CIT171
This course is intended for Information Technology (IT) Professionals who have some knowledge and experience working with Windows operating systems and who want to acquire the skills and knowledge necessary to install and perform the initial configuration of a Windows Server 2012 or Windows Server 2012 R2 server in an existing Windows server environment. Candidates typically interested in attending this course would be Windows Server Administrators who are relatively new to Windows Server administration and the related technologies and are looking to learn more about Windows Server 2012 or Windows Server 2012 R2.

IT Professionals who are experienced in other non-Microsoft technologies, who meet the pre-requisites and are looking to cross-train on Windows Server 2012 and Windows Server 2012 R2.

IT Professionals who are looking to take the 410, Installing and Configuring Windows Server 2012 exam.

IT Professionals wanting to take the Microsoft Certified Solutions Expert (MCSE) exams in DataCenter, Desktop Infrastructure, Managing, Collaboration and Communications will also be interested in taking this course as they prepare for the Microsoft Certified Solutions Associate (MCSE) exams, which are a prerequisite for their individual specialities.

CIT174: MCSE I Lab
Co-requisite: CIT170
This course is intended to focus on lab time for students enrolled in CIT170.

CIT175: MCSE II - Administering Windows Server
Prerequisite: CIT171
Co-requisite: CIT176
This course is intended for Information Technology (IT) Professionals with hands on experience working in a Windows Server 2008 or Windows Server 2012 environment who wish to acquire the skills and knowledge necessary to be able to manage and maintain the core infrastructure required for a Windows Server 2012 and Windows Server 2012 R2 environment. The key focus for students is to broaden the initial deployment of Windows Server 2012 services and infrastructure and provide the skills necessary to manage and maintain a domain based Windows Server 2012 environment, providing skills in areas such as User and Group management, Network Access and Data Security. Candidates typically interested in attending this course would be Windows Server Administrators experienced in working with Windows Server 2008 or Windows Server 2012 who wish to gain skills necessary to perform daily management and maintenance tasks in a Windows Server 2012 or Windows Server 2012 R2 environment.

IT Professionals who are looking to take the 411, Administering Windows Server 2012 exam.

IT Professionals wanting to take the Microsoft Certified Solutions Expert (MCSE) exams in DataCenter, Desktop Infrastructure, Messaging, Collaboration and Communications will also be interested in taking this course as they prepare for the Microsoft Certified Solutions Associate (MCSE) exams, which are a prerequisite for their individual specialities.

CIT178: MCSE II Lab
Co-requisite: CIT175
This course is intended to focus on lab time for students enrolled in CIT175.

CIT177: MCSE III - Configuring Windows Server Advanced Services
Prerequisite: CIT175
Co-requisite: CIT178
This course is intended for Information Technology (IT) Professionals with hands on experience implementing, managing and maintaining a Windows Server 2012 or Windows Server 2012 R2 environment who wish to acquire the skills and knowledge necessary to perform advanced management and provisioning of services within that Windows Server 2012 environment. Candidates who would typically be interested in attending this course will be:

Experienced Windows Server Administrators who have real world experience working in a Windows Server 2008 or Windows Server 2012 enterprise environment.

IT Professionals who are looking to take the exam 412, Configuring Advanced Windows Server 2012 Services.

IT Professionals wishing to take the Microsoft Certified Solutions Expert (MCSE) exams in Datacenter, Desktop Infrastructure, Messaging, Collaboration and Communications will also be interested in taking this course as they prepare for the MCSE exams, which are a prerequisite for their individual specialities.

CIT179: MCSE III Lab
Co-requisite: CIT177
This course is intended to focus on lab time for students enrolled in CIT177.