

Advisory Committee Meeting Minutes

PROGRAM COMMITTEE NAME:		ADVISORY COMMITTEE – COMPUTER INFORMATION SYSTEMS			
CHAIRPERSON:	Carol Buse				
MEETING DATE:	May 24, 2017	MEETING TIME:	12:00 PM	MEETING PLACE:	Amarillo College – Washington Street Campus, Ware 207
RECORDER:	Heather Beeson			PREVIOUS MEETING:	February 25, 2016
COMMITTEE MEMBERS					
List all members of the committee, then place an X in the box left of name of those present					
	NAME	TITLE	EMPLOYER INFO	PHONE	EMAIL
X	Duane Crowley	SEG Manager Core	CSI	806-676-6395	Duane.crowley@csiweb.com
X	Brad Sanders	GM	Westgate Computers	806-352-4243	bsanders@westgatecomputers.com
X	Minh Lam	Network Administrator	Sprouse Shrader Smith	806-468-3390	Minh.lam@sprouselaw.com
X	Cody Case	Student Representative	Westgate Computers	806-679-5920	ccase@westgatecomputers.com
X	Zack Newbill	Student Representative	Amarillo College	806-371-5989	Z0276021@actx.edu
EX-OFFICIO'S PRESENT					
X	Mark Usnick	Instructor - CIS	Amarillo College	806-371-5994	acbuse@actx.edu
X	Christopher George	Instructor – CIS	Amarillo College	806-371-3519	c0245396@actx.edu
X	Shane Hepler	Director Program Service	Amarillo College	806-371-5498	shane.hepler@actx.edu
X	Terry Kleffman	CIO	Amarillo College	806-371-5111	tkleffman@actx.edu
X	Susie Wheeler	Grants Coordinator	Amarillo College	806-371-5352	lswheeler@actx.edu
X	Delane McUne	Instructor – CIS, Lab Administrator	Amarillo College	806-371-5220	delane.mcune@actx.edu
X	Lynne Seal	Instructor	Amarillo College	806-371-5243	lseal@actx.edu
X	Heather Beeson	Administrative Assistant	Amarillo College	806-371-5269	h0181301@actx.edu

AGENDA ITEM	ACTION DISCUSSION INFORMATION	RESPONSIBILITY
Old Business:	NA	
Continuing Business:	NA	
New Business:	NA	

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Curriculum Decisions:	NA	Advisory Committee
Other:	No new decisions to make.	
KEY DISCUSSION POINTS	DISCUSSION	
Old Business:	NA	
Continuing Business	NA	
New Business:	<p>The meeting called to order by Dr. Buse at 12:10 p.m.</p> <p>Dr. Buse began by saying it would be a short meeting because there were no decisions to be made. The meeting would be an update of what CIS had been doing, followed by a brief discussion about the curriculum. She mentioned the agenda would be a little out of order because there were people who hadn't made it to the meeting yet.</p> <p>Introductions were made around the room.</p> <p>Christopher George began discussing the student club, Bash Script Crazy, who have aligned themselves with the Association of Information Technology Professionals (AITP). The students attended their first AITP contest in San Marcos, but were sent home when it was cancelled due to bad weather. Bash Script Crazy offered to have the next contest at AC because there was little chance of rain. Chris offered thanks and appreciation for everyone who helped out with that.</p> <p>The conference was the first one Bash Script Crazy group had hosted. There were over 200 attendees from a 6 state region, Texas, New Mexico, Oklahoma, Arkansas, Mississippi, and Louisiana, and 8 contests with 70-80 students in each contest. Oklahoma Panhandle State University, who attend national and regional competitions, co-hosted. The contests were staged in the Byrd Business building on the AC Washington Street Campus. It began with a student social on Friday night where they played old school retro video games and had a lot of fun.</p> <p>Some of the schools that attended the competition were University of Houston, Panhandle State University, University of Texas Rio Grande, Texas State, Oklahoma State University, Institute of Technology Ole Miss, Camron University out of Oklahoma, and Northwestern out of Louisiana. These programs coming here also provided a little economic kickback to Amarillo, so it was great to have that conference here.</p> <p>Out of 200 attendees and many, many students, AC was voted the best overall school. To prevent bias there were independent judges from various industries in Amarillo, WTAMU, and Potter County. The contests were also tagged so the school entering was not known until after judgement had been made. AC won 1st place in Java Programming, 1st place in pc troubleshooting, 1st place in cyber security, 1st place in mobile applications, and 2nd place in C # programming.</p>	

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Some of the students who entered the contest were Chris Coffee, an amazing Programmer, Zak Newbill, also amazing with programming, Kyele Day, a cyber-security champion who is already working with CSI in Fort Collins, and Marshall Homfeld who won 1st place in pc troubleshooting. Chris Coffee won prizes, award money, an iPad, a watch and hopefully an internship.

Christopher George pointed out that the contest is great for our community, and shows students are hardworking and getting great instruction.

In March there was another competition in St. Louis. BSC took 8 students, and right there by the arch, they attended competitions with over 500 attendees and 300-400 students from all over the nation. There they competed against larger schools such as Perdue, University of Wisconsin, BYU, University of Mississippi, Missouri State, University of Iowa, and other great Division 1 schools in addition to some of the ones at the previous competition. Once again Amarillo College loaded up on top awards.

Christopher then showed the trophies they had won at the competition in St. Louis, and described that they were just the “little community college” in the back, who had never been to a national conference or had any idea how it went. Their 8 students competed with Texas State, who usually wins it all with around 42 students, and multiple teams in every contest, and still came out winners.

Some of the winners from that competition were Chris Coffee, who took 1st place in mobile app development, Cody Case, who took 2nd place in pc trouble shooting, Marshall Homfeld, who won Visual Studios.net, and Zak Newbill and Cody Case, who won Microsoft Office Solutions.

Christopher then talked about how great it was to compete at the national level, and to have proven that AC students are some of the best in the nation. It shows that the program is just as viable as any other in the nation. He thanked everyone for supporting BCIS and the future of IT in the area. He then introduced Zak Newbill and Cody Case.

Cody Case introduced himself and talked about the trip to St. Louis. He mentioned the instructors who helped him gain the knowledge to compete. Zak Newbill then spoke about his experiences in St. Louis.

They were asked how they felt about the problems asked in the contest. Cody talked about how the experience he received while working in the CIS labs helped with those questions. He described some of the questions and what they did to solve them with the program they were taught, instead of the one asked for.

It was asked what made Cody and Zak want to come to AC. Zak said he wanted to stay in Amarillo because of family, and initially began school at AC because of his experiences touring the campus while in high school. He wants to find a full time job and then may continue with school. Cody also stayed in Amarillo because his family was here. He worked as a security officer, but was always a “computer guy,” so he decided to go to school to study CIS. He plans to continue his degree at WT.

Carol Buse then started talking about the new computers in the labs, and introduced Delane McUne to elaborate.

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Delane talked about the 36 new machines received from IT with larger memory which are able to support more course work. Perkins funds were used for 40 additional new machines which work well for gaming classes. IT also updated the instructor workstations in the labs, 11 in total.

Carol then began talking about 8 week classes. 80% of the courses offered are now 8 weeks, which does not include some of the Programming classes. This 8-week format allows students to get through faster, and has shown more success than 16 week classes. She believes this is due to the fact that students tend to “get after it” in 8 week classes because they know they can’t procrastinate. The whole college has seen success with these classes, and the President would like to follow this model for almost every class, so the college’s future, with some exceptions, will be with 8 week classes.

Dr. Buse then switched topics to talk about the curriculum, and the 3 CIS degrees along with the numerous certificates which feed the degrees. The overall topics covered for these degrees are Microsoft Office, Database, advanced database, Sequel, PHP, C #, .net, UNIX, HTML, CSS, and computer hardware/software which leads to CompTia A+ Certification. Computer Security leads to CompTia Security + certification. The students are not required to take the certification tests, but they do get a discount if they would like to become certified.

If a student gets their associates in CIS they can choose between options: Programming, which requires extra courses in Java and mobile programming, Web Development which requires extra courses in web design, Java script and J Query (primarily in art department), or Software Security and Networking, which requires extra courses in networking as well as security. They also have the option to choose Business which consists of extra courses in Accounting, Economics and Business Law.

Carol asked for opinions about degrees, or anything that may need to be added.

A question was asked, “on the two databases, is it how to use database or maintain a database?” Carol answered by saying we’re teaching design in Access, but are changing it to SQL Server. The first database class will be SQL and second advanced class will be design, or vice versa. She was not able to remember exactly. The class will be taught from a design point of view, rather than an admin point of view, and there will probably be some imbedded code.

Another question was asked about whether the web design class taught how to publish the web sites? Cody Case answered and said that was exactly what Web Design 2 taught. The class teaches how to create and then publish a site. The student buys a domain name and publishes the page out to the internet.

Minh Lam then talked about networking. He didn’t feel comfortable with tracking when he graduated from AC, and when he started a job in CIS it required it. He suggested that Websense be taught more to prevent other students from experiencing the same problem.

In response to this, Christopher George explained that we use different open source software in the network and security portions of the degrees. The students are taught Server plus, Windows Server, and Linux then are allowed to choose to use a moderator tool. It is also taught in Cisco, which has just changed curriculum and has a new CCNA certification exam. We are a certified Cisco networking academy. We teach port security for all of the switches, how to access control lists in the routers and CIS log, and teach networking students about security from the ground up in design. The students start designing for a home office environment in Cisco 1, in Cisco 2 they start working at the size of a small or medium sized

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business, and then by Cisco 3 and 4 they are working with wide area networking, with security and accountability in mind, as they get ready for their CCNA.

Christopher went on to explain that Cisco has started including software to find networking, so are pushing students to learn a little more code. There is a dedicated chapter for programming in the final Cisco track, and in Digital Forensics as well, to show that with code you're more powerful, and have more control. Cisco also provides CompTia A+, Network +, and Security + training. The Security + assists with the accounting software on the networking side. Students are able to monitor the environment, and try to be aware as soon as a computer plugs into the network. If an address is not supposed to be plugged into that port, it shuts down the port, sends an alarm, then the student should be able to see who tried to plug into the network. Cisco has done well with their curriculum. In the past couple of years there was older, outdated software, so they revamped it and have newer technology now with security in mind from the beginning.

Minh Lam commented, Udemy has a lot of courses that show how to hack. Christopher responded by saying that they teach ethical hacking and network defense in the Network intrusion course. The students are taught to defend and hopefully be proactive, not reactive. They need to learn this info so they will know if they are being attacked, and what to do. They take a forensics dump of the ram and memory of the routers and switches, and dump it so it can be analyzed later. So instead of just putting a Band-Aid on the problem, the students are taught to do a root cause analysis and prevent the problem from happening again.

Carol stated that we have a degree focused on networking and security, and eventually would like to be a center for excellence for two year colleges with Cyber Security (NSA Program). It requires an instructor who is a Certified Information Systems Security Practitioner (CISSP), which is an expert level security practitioner in management of a security environment. We do teach some courses on the basic management level and are looking for a CISSP, which Christopher is working towards. Once that is achieved, we will be a part of NSA Center for Academic Excellence for two year colleges. That will make us a CAE college, and the students will be able to transfer to any other CAE school and keep all of their credits.

Virtualization was asked about, and Christopher answered. We teach some virtualization with a host based, virtual machine and VMware player. We cover bare metal virtualization, but do not have the equipment to do it physically so it is all virtual right now. We started to use GNS3 to teach students how to build it in a virtual world, so when they get out in the real world then they can manage servers and virtual machines. We also create multiple virtual machines in Linux and Windows versions.

Carol mentioned that there's not a class we can actually offer that the state will fund, but we can incorporate that information into another class.

Dr. Buse asked if there were any more questions, and then thanked everyone for coming and concluded the meeting.

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Other:	The meeting was adjourned at 12:55pm. The next Advisory Committee meeting has not been set.		
Recorder:	Date:	Next Meeting:	
	May 24, 2017	To be determined	