

Owens Community College

Wide Area Networking Major Advisory Meeting

Date: April 22, 2016

Location: Industrial and Engineering Technologies Building, Room 130

Industrial Attendees: John Butson, Dave Schuck, Edward Fifer, Michael Bayes, David Zawistowski, Dan Niedzwiecki, John Rust

Owens Attendees: Lynn Kendall, Jacey Parks, Glenn Rettig, Diana Stachowiak, David Shaheen, Curt Mezger

Topic	Discussion/Rationale	Recommendation/Decision/Action
Call to Order and Review of Previous Minutes	<ul style="list-style-type: none"> • The meeting was called to order at 8:5 a.m. by EECT Chairman Diana Stachowiak. • All minutes are posted to the Owens website. 	<ul style="list-style-type: none"> • Minutes of the spring 2015 meeting were reviewed and approved.
Enrollment and Retention Report	<ul style="list-style-type: none"> • The School of Science Technology, Engineering and Mathematics (STEM) enrollment for 2015 was 4,356 students. This year there are 4,648 students. This is a 6.7% increase • The Wide Area Networking (WAN) program enrollment that had 26 students last year has risen to 32 this year for a 23.1% increase. This includes both Toledo and Findlay Campuses. • The Toledo Campus WAN program had 19 students last spring compared to 28 students this spring for a 47.4% increase. • The Findlay Campus WAN program had 7 students last spring compared to 4 students this spring for a 42.9% decrease. 	<ul style="list-style-type: none"> • Millstream students take the first two Cisco courses and Whitmer students take the first four Cisco courses. The instructors report some difficulty getting students through the coursework due to maturity issues. There is a small group of high school Cisco students that do make it through. • Diana Stachowiak is pleased with the number of students that the program is retaining. • There are initiatives in process to increase advertising. Good web pages are necessary and are in the process of being updated.
Faculty Report	<ul style="list-style-type: none"> • David Shaheen reported that it looks like the Cisco Academy is going to completely stop supporting the CCNP courses <u>or</u> transfer it to a third party -- those courses may need to be eliminated from the program. • Lynn Kendall said there is a possibility of expanding some of the current courses to make up for the CCNP courses, if they are eliminated. 	<ul style="list-style-type: none"> • Lynn Kendall believes routing and switching is important, but thinks giving students a broader array of topics may be better. • Wireless is continuing to grow. Security is also good with all the vulnerabilities out there. VOIP is also becoming popular. Splitting them up makes sense. • EET 222, EET 141 and EET 241 are available alternatives to EET 285, 286 and 287.
Student Report	<ul style="list-style-type: none"> • There were no students present. 	
Outcomes Assessment Status Report	<ul style="list-style-type: none"> • Every spring, Diana Stachowiak shares the results of how students are doing in individual courses with advisory members. She was unable to do it this spring, due to the College dropping the TaskStream database where all the information was stored. With the College being on fiscal watch, the software became cost prohibitive and was discontinued. 	<ul style="list-style-type: none"> • Diana Stachowiak stated she is collecting outcome data, but it will take a little longer for her to build the reports as she will have to create new templates. This information should be available for the fall meeting.

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Wide Area Networking Major Advisory Meeting

<p>Outcomes Competency Validation</p>	<ul style="list-style-type: none"> • There are industry standard competencies in all areas of the Wide Area Networking program. 	
<p>Professional Development, Partnerships and Articulation</p>	<ul style="list-style-type: none"> • The State is emphasizing that representatives from colleges, universities and high schools meet to agree on common material and standards for each program. These standards are called Transfer Assurance Guides (TAG) courses. • The benefit of having courses TAG'd is that all schools with a corresponding TAG'd course would automatically accept our TAG'd course for credit as long as the high school student has passed the course with a C or better. If the student gets a C and wants to transfer the credit to Owens, Diana Stachowiak will look at it a little closer and meet with the student to see how solid they are to ensure the student's success in the class. 	<ul style="list-style-type: none"> • EET 130 Computer Diagnosis and EET 222 Network Securities has been blessed by the state for CTAG. Dave Shaheen was thanked for helping to answer the state's questions that led to the EET 222 course being approved. • The Cisco CCNA courses are also TAG'd. • TAG'd courses have to be reviewed and updated periodically.
<p>Program and Curriculum Enhancements</p>	<ul style="list-style-type: none"> • Since the Network Academy will discontinue the CCNP courses and VOIP and Wireless are becoming more critical adjustment need to be made to the WANT curriculum. • Any changes to the curriculum would need to be kept as close to 62 total credits as possible to meet state requirements. If not in compliance, the College would not get state funding for WANT. • Diana asked if WANT students should take VM Ware courses. • Diana Stachowiak asked if the JAVA programming could be dropped. • All present agreed that WANT students should have exposure to security. • All present acknowledged that there should be a security degree with transferable courses. Everyone present understood why the last security program was discontinued. • Dan Niedzwiecki commented that the Department of Labor reported that there will be 400,000 new jobs in the field of data assurance and that about 200,000 of those jobs would go unfilled due to lack of qualified workers. 	<ul style="list-style-type: none"> • All committee members were in favor of having a one semester VOIP course and a one semester Wireless course. The VOIP course should cover video over IP because this topic is becoming necessary for broadcast networking as mentioned by Dan Niedzwiecki. • Committee members said that exposure to VM Ware through their WANT labs was sufficient. Members commented that VM Ware curriculum would be better for the Computer Science students. • Committee members Edward Fifer, Jay Taylor, John Butson and David Shaheen recommended dropping C Programming and keeping Java Programming. • Jay Taylor said it would be feasible to combine EET141 and EET241 into one course and certainly keep EET222 in the WANT program for an exposure to security. • A new security program was discussed. Having a basic routing and switching background would be necessary so EET130, EET281, and EET282 would be required. Also EET289 would be a required course and its pre-requisites would need to be adjusted. Data and physical security, penetration testing, intrusion prevention and vulnerabilities, compliances, SSL encryption, voice and wireless security and server and network patch should be included in a new security program. • Committee members felt that this should be taken into

Owens Community College

Wide Area Networking Major Advisory Meeting

		<p>consideration when starting a new degree but that a 2 year programs cannot support this need as some of the skills needed for these positions are quite advanced. However, the 2 year colleges can get people on the way towards the needed education for data assurance careers.</p> <ul style="list-style-type: none"> • A subcommittee to determine content and equipment will be formed. Progress will be presented at the fall meeting.
Equipment, Facilities, and Staffing	<ul style="list-style-type: none"> • Funds to replace equipment and software (VM Ware supporting servers and VM Ware software) are being sought from the Owens Foundation, company donations, grants, and lab fees. 	<ul style="list-style-type: none"> • The VM Ware equipment will be good. • Many companies use controlled based access points. The equipment would need to be updated in the labs to handle the changes to the curriculum commented Edward Fifer. He recommended CISCO and ARUBA equipment as well as JUNIPER.
Accreditation Status	<ul style="list-style-type: none"> • The School of STEM received full accreditation for 6 years with a two year report. Partial compliances were given in regards to tracking graduates. 	<ul style="list-style-type: none"> • Getting student's personal email addresses in the first year classes is being discussed as well as having students set up a LinkedIn page. Instructors can have students update their pages as an assignment in various courses throughout the curriculum.
Other	<ul style="list-style-type: none"> • Advisory members were thanked for their input and commitment to the program. • Chair-John Butson, Vice Chair-John Rust, Secretary-Mike Bayes • The meeting adjourned at 9:10 a.m. 	