

Owens Community College

CAD Technology Advisory Meeting

Date: March 21, 2013

Location: Honey Diner, Walbridge, OH

Industrial Attendees: Scott Chapman, John Colley, Linda Gulvas, Lorrie Hedges, Wes Linenkugel, Eric Messer, David Rizzo, Patricia Torkelson

Students: Suanne Drees and Matt Leafgren

Owens Attendees: Bill Antoszewski, Alan Bethea, Jacey Parks, Ralph Semrock, Duane Shaffer, Randy Wharton

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 by Chairman Wes Linenkugel at 8:00 a.m. and introductions were made. ▪ Minutes were distributed and reviewed. 	<ul style="list-style-type: none"> ▪ Minutes were approved. ▪ Minutes can be found on the Owens website at www.owens.edu under Academics, then the appropriate program.
Enrollment and Retention Report	<ul style="list-style-type: none"> ▪ The College overall enrollment is down 1.1% when compared to last spring. ▪ The School of Technology (SoT) enrollment is down 4.8%. ▪ The CAD program enrollment is up 57.1% from 70 declared majors to 110. ▪ The CAD Certificate remained the same at 14 students. 	<ul style="list-style-type: none"> ▪ The economy is rebounding which means enrollments are lower due to students going back to work. ▪ High School students have an opportunity for dual enrollment. They are able to take and get credit for college courses at the high school.
Faculty Report	<ul style="list-style-type: none"> ▪ This semester, Alan Bethea is teaching AutoCad, SolidWorks, and Advanced SolidWorks along with two sections of QCT 105 Technology and Society. He has had by far the best students he has ever had this semester. They are ambitious and make it to class. Catia and Unigraphics NX are on the schedule for next fall. ▪ Ralph Semrock reported this has been a fast semester. He is teaching KeyCreator and Alternative Energy courses. Ralph is also teaching CAD 275 Surface and Solid Modeling which is the capstone course and it is going very well. The students are going above and beyond in this class. He also has good students in his other classes. ▪ Duane Shaffer is teaching Intro to CAD, Manual Drafting, and Industrial CAD I in Findlay this semester. Numbers are down, but students are sticking around. Everything is going fine. 	<ul style="list-style-type: none"> ▪ Duane Shaffer would love to evolve the Industrial CAD I and II classes into problem solving classes. It would incorporate the things they have already learned and force them to think and solve their own problems. The software is taught in the lower level classes and the application is taught in the upper level classes. ▪ There is a large amount of work being done globally now days. Version 6 of Catia addresses that arena, so Alan Bethea will look into collaboration projects with this next release.
Student Report	<ul style="list-style-type: none"> ▪ Student Matt Leafgren stated that he is obsessed with CAD and it is the most enjoyable two hours of his week. He thought it was interesting to get a behind-the-scenes look into the program and appreciates the opportunity to attend this meeting. He does not want to be steered into machine design; he wants to solve design problems. Alan Bethea has been his primary instructor and he has great respect for him. 	<ul style="list-style-type: none"> ▪ Student Matt Leafgren likes that the program is broad based and versatile. He values that the CAD packages are relevant as employability is very important. ▪ Student Suanne Dress thinks it would be fantastic to do projects with students at other places globally. ▪ Most of the advisory members reported that their companies allow tours and/or shadowing experiences.

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	<ul style="list-style-type: none"> ▪ Suanne Drees stated she is thoroughly enjoying the time she is spending doing CAD. She may only be taking one course during the semester, but she comes in 2-3 times during the week just to play with CAD. She is working as the CAD student worker and likes helping other students. 	<ul style="list-style-type: none"> ▪ Advisory members were invited to Owens to sit in on classes or talk to students and instructors.
Outcomes Assessment Report	<ul style="list-style-type: none"> ▪ Outcome assessments use objective and subjective measures to determine whether a student has met the course's state Student Learning Outcomes (SLOs). An acceptable target for each course is 75% of the students meet the standards. The ideal target for each course is 90% of the students meet standards. ▪ Program I-sheets (information sheets) have been developed that give an overview of the program. They can be sent as pdf files to anyone who would like them so they can be given out to interested people. ▪ Bill Antoszewski is working on an on-line survey through Survey Monkey to determine the most commonly used/needed software programs being used in industry. Current software in use is AutoCAD, SolidWorks, KeyCreator, Catia, and Unigraphics NX 	<ul style="list-style-type: none"> ▪ Five of six courses met the program acceptable target and the ideal target. CAD 265 is the only course within the program that did not meet the benchmark of 75% of students "meet standards". The instructor feels that students essentially "quit" on the class after the mid-term. This is the first instance of low performance for this course, so specific improvements will be discussed with the program advisory committee.
Outcomes Competency Validation	<ul style="list-style-type: none"> ▪ Outcomes competency validation is continually reviewed for relevancy. 	<ul style="list-style-type: none"> ▪ Anyone having comments, additions or corrections should let Bill Antoszewski know.
Program and Curriculum Enhancements	<ul style="list-style-type: none"> • In an effort to get students through school successfully and out into the workplace, the Ohio Board of Regents (OBR) has established a goal of associate degrees requiring approximately 60 credit hours with a soft cap of 65 credit hours. • The current CAD program requires 70 credit hours. • It is being proposed to drop MET 130 Material Science and replace it with CIV 111 Construction Materials II as discussed in the previous advisory meeting. CIV 110/111 is a full-year series that covers construction material, assemblies, and building methods. Advisory members felt that the knowledge of materials was an important component of the program. CIV 110/111 could possibly be modified to include more metals. 	<ul style="list-style-type: none"> • The Design Department is proposing that QCT 110 Statistical Quality Control and ENG 112 Composition II be eliminated as it is not required by OBR or for accreditation. This would bring the program to 64 credit hours. If further reduction is needed, CIV 120 Geographic Information Systems could also be dropped. • EET 130 Computer Diagnostics is being replaced by IST 131 for fall 2013. EET 130 involves more of the inner workings of a computer and does not contain the needed amount of Microsoft Word, Excel, or PowerPoint that Design Technology students need, whereas IST 131 does. • EET 220 CAD Electronic Drafting will be replaced by CAD 250 Industrial CAD II for fall 2013. This new course will be geared toward CAD students and eliminate the redundant CAD "software" training. • The elimination of MET 130 Material Science will be

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		re-examined.
Equipment, Facilities, and Staffing	<ul style="list-style-type: none"> ▪ With the program's growth and Ralph Semrock's retirement this June, the Design Department will be in the market for adjunct instructors. 	<ul style="list-style-type: none"> ▪ If advisory members have an interest in teaching or know someone that has an interest, let Bill Antoszewski know.
Accreditation Status	<ul style="list-style-type: none"> ▪ Most of the School of Technology programs are accredited by the Association of Technology, Management and Applied Engineering or ATMAE through 2015. 	<ul style="list-style-type: none"> ▪ Student collections will be gathered during the fall of 2013 and spring of 2014 for the spring 2015 visit.
Other	<ul style="list-style-type: none"> ▪ Advisory members discussed the most important qualities that they look for in students which include: ability to absorb information and learn, a positive attitude, dependable, hard working, problem solving ability, resourcefulness, good communicator, good work ethic, mathematically proficient, understand what they are doing and the value of money, how to act professionally, passionate about their work, and the general understanding of weld symbols, GD&T surface finishes as well as understand what the machine does. ▪ Advisory members were thanked for time and commitment to the committee. ▪ The meeting adjourned at 10:00 a.m. 	<ul style="list-style-type: none"> ▪ Wes Linenkugel is Chairman; Eric Messer is Vice Chairman and Richard Barkhimer is Secretary.