

# Owens Community College

## CAD Technology Advisory Meeting

Date: April 24, 2014

Location: Industrial & Engineering Technologies Building, Room 130

Industrial Attendees: Linda Gulvas, Lorrie Hedges, Wes Linenkugel, Casey McVey, Eric Messer, David Rizo, Pat Torkelson

Students: Garrett McDowell and Tony Smoktonowicz

Owens Attendees: Alan Bethea, Brad Meyer, Jacey Parks, Tom Perin, Duane Shaffer, Randy Wharton

Topic	Discussion/Rationale	Recommendation/Decision/Action
Call to Order and Review of Previous Minutes	<ul style="list-style-type: none"> <li>▪ The meeting was called to 8:15 a.m. and introductions were made.</li> <li>▪ Minutes were distributed and reviewed.</li> <li>▪ Bill Antoszewski, who was the Chair of the Design Technologies &amp; Welding Department, resigned to work full-time as a civilian for the Air National Guard. Dean Randy Wharton is Interim Chair for this department until a replacement is found.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Minutes were approved and can be found on the Owens website.</li> <li>▪ Dean Randy Wharton is confident the Chair position will be filled quickly.</li> </ul>
Enrollment and Retention Report	<ul style="list-style-type: none"> <li>▪ A handout showing enrollment and retention from 2007 through 2013 was distributed to meeting attendees. CAD program enrollment was 111 in the fall 2012 and decreased to 79 in fall of 2013.</li> <li>▪ The drop in enrollment can be attributed to the number of people leaving Toledo and the economy. Decreasing enrollment is a common trend across the country.</li> <li>▪ Owens has a number of initiatives in place to attract and retain students.</li> <li>▪ In November, Owens successfully hosted 80 girl scouts for a day, giving them a number of projects to complete. More activities of this type would help to bring in students.</li> </ul>	<ul style="list-style-type: none"> <li>▪ The CAD program enrollment is strong and the retention rate is extremely good.</li> <li>▪ The Owens CAD program at Owens remains the number one CAD program in Northwest Ohio. Many UT and BG students come here and transfer course work back to UT or BG.</li> <li>▪ Dean Randy Wharton is investigating the creation of an electric vehicle group in an effort to get a number of activities going that would bring in college, high school and grade school students.</li> <li>▪ A suggestion was made to implement an engineering curriculum in the grade schools similar to the one Junior Achievement does.</li> <li>▪ Casey McVey will get information on the GIS Day to Randy Wharton. When the volunteers go out to the schools to promote GIS, they can also promote Owens.</li> <li>▪ Lorrie Hedges said she would be happy to volunteer again for the “We are IT” event for 7<sup>th</sup>-8<sup>th</sup> grade girls that has been held in the past.</li> </ul>
Faculty Report	<ul style="list-style-type: none"> <li>▪ Duane Shaffer reported that the overall numbers are down. The beginning CAD courses are struggling in Findlay. It will take time to build it back up again. He is still working across different program areas. CAD 115 did not have a real good retention rate this semester. Students love making the</li> </ul>	<ul style="list-style-type: none"> <li>▪ It was agreed that manual drafting is important, but it was suggested to combine it with Intro to CAD.</li> </ul>

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	<p>pictures, but not the dimensioning.</p> <ul style="list-style-type: none"> <li>▪ Alan Bethea reported that his Advanced SolidWorks class is overloaded with 16-17 students this semester. Intro to CAD, Catia, NX and, Key Creator and Solid Works are on the schedule for fall semester. Numbers are looking good so far. AutoCAD, Advanced SolidWorks, Advanced Catia, Advanced NX will be on the spring schedule. These software programs will give students an edge in the marketplace.</li> </ul>	
Student Report	<ul style="list-style-type: none"> <li>▪ Student Tony Smoktonowicz is an exceptional student who is a recipient of a NASA Space Grant Scholarship. He is majoring in three programs – Electronics, Environmental, and Computer-Aided Machining. He is working on a robot that will search out methane leaks and record the location. Solid Works was used to design a number of the parts that were produced on a 3D printer to make the model.</li> <li>▪ Student Garrett McDowell provided Tony Smoktonowicz assistance on the robot project. He stated he is turned off by having to take AutoCAD. He has been using SolidWorks, so he doesn't see the point to learning AutoCAD. Architectural GIS doesn't appeal to him either.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Student Tony Smoktonowicz's poster won an award at the Space Grant Symposium.</li> <li>▪ Dean Randy Wharton is planning to use Tony's project at high school visitations to show what it is like to take a project from drawing to manufactured product.</li> <li>▪ The major issue with AutoCAD is that it is antiquated, but companies are still using it.</li> <li>▪ Randy Wharton explained that a graduate needs a broad knowledge of a lot of different areas, that's why they are in the program. Program Chairman can substitute comparable courses for required courses if there is one the student prefers.</li> <li>▪ Students are encouraged to put any program changes they would like to see in the student course evaluations.</li> </ul>
Outcomes Assessment Report	<ul style="list-style-type: none"> <li>▪ The 2013 Outcome Assessment reports have been submitted. The CAD Technology program got pretty good marks mostly due to Lead Instructor Alan Bethea who keeps the program current.</li> </ul>	<ul style="list-style-type: none"> <li>▪ The CAD Technology program is meeting standards.</li> </ul>
Outcomes Competency Validation	<ul style="list-style-type: none"> <li>▪ Outcomes competency validation is continually reviewed for relevancy.</li> </ul>	
Program and Curriculum Enhancements	<ul style="list-style-type: none"> <li>• Casey McVey is interested in getting more advanced GIS options in the CAD program. Having GIS knowledge makes graduate more attractive for employment.</li> <li>• Minutes of the last meeting show that advisory members unanimously felt the Mechanical Engineering program should be brought back. The request was submitted, but was denied. More data is needed to prove that it would be a viable program.</li> <li>• Alan Bethea is doing a good job of offering courses that are</li> </ul>	<ul style="list-style-type: none"> <li>• Casey McVey will get with Randy Wharton to develop a GIS certificate option.</li> <li>• Once a new Chair is on board, more data will be collected and the request for a Mechanical Engineering program with a CAD option will be resubmitted. Pat Torkelson volunteered to help collect data, provide leg work or do whatever else is needed.</li> <li>• BGSU and UT are open to articulation agreements with Owens to provide students a pathway into their</li> </ul>

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	<p>pertinent. They may not be part of the required courses for the program, but the students want them.</p> <ul style="list-style-type: none"> <li>• AutoCAD software will need to be upgraded because the Architectural program needs Revit. Revit cannot be obtained without AutoCAD. When it gets upgraded depends on funding.</li> </ul>	<p>programs. This would help in getting the Mechanical program activated.</p> <ul style="list-style-type: none"> <li>• David Rizo is disappointed that Owens doesn't have a mechanical program. He is hiring people from Monroe CC because Owens graduates do not have the Mechanical background.</li> <li>• A subcommittee meeting will be scheduled soon to discuss the Mechanical Engineering program.</li> <li>• Catia is being reviewed to determine if it should be Cloud-based. If going to the Cloud is put off for another year or two, the bugs may get worked out of it.</li> <li>• Tom Perin commented that Perkins Mini Grant funds are available and may be an option for funding part of the AutoCAD purchase, but the applications deadline is close.</li> </ul>
Equipment, Facilities, and Staffing	<ul style="list-style-type: none"> <li>▪ The advising staff is doing an amazing job getting students in the right courses. There has been a great advantage in having them in the building as well as having them specifically for STEM programs.</li> </ul>	
Accreditation Status	<ul style="list-style-type: none"> <li>▪ Most of the School of Technology programs are accredited by the Association of Technology, Management and Applied Engineering (ATMAE) through 2015.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Student collections are currently being gathered for the spring 2015 accreditation visit.</li> </ul>
Other	<ul style="list-style-type: none"> <li>▪ Advisory members were thanked for their time and commitment to the committee.</li> <li>▪ The meeting adjourned at 10:30 a.m.</li> </ul>	<p>Wes Linenkugel is Chairman; Eric Messer is Vice Chairman and Richard Barkhimer is Secretary.</p>