

# Owens Community College

## CAD Technology Advisory Meeting

Date: November 18, 2016

Location: Industrial & Engineering Technologies Building, Room 130

Industrial Attendees: Paul Buskey, Chris Corpus, Lorrie Hedges, Mat Ingram, Erik Lesniewski, Charles McVey

Students: Rasha Baher, Richard Oehler

Owens Attendees: Alan Bethea, Terry Katschke, Jacey Parks, Glenn Rettig, Duane Shaffer

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 order at 8:40 a.m. and introductions were made.</li><li>▪ Minutes were distributed and reviewed.</li></ul>	<ul style="list-style-type: none"><li>▪ Minutes were approved and can be found on the Owens website.</li></ul>
Enrollment and Retention Report	<ul style="list-style-type: none"><li>▪ There are currently 65 students enrolled in the 7 CAD sections running in Toledo and 52 students enrolled in the 7 CAD sections running in Findlay this semester. Of these 117 students, some could be taking multiple classes or enrolled in other programs.</li><li>▪ The enrollment report shows that 53 students have declared CAD as their major. This is up 8 students from last year or a 17.8% increase.</li><li>▪ A couple of times during each semester, groups of high school students tour the campus and learn about the programs Owens has to offer.</li></ul>	<ul style="list-style-type: none"><li>▪ Program Chairman Terry Katschke reported that he is happy to see the increase in numbers. The four STEM advisors located in the Engineering building have helped with making sure students are declaring the correct major.</li><li>▪ A suggestion was made to market the program to local businesses. A database is currently being compiled of area companies who use CAD. Owens is willing to work with companies to get employees trained in what they need.</li><li>▪ There are no formal articulations with any four-year institutions at this time. Typically, UT will accept one drafting class and BGSU accepts only one or two.</li></ul>
Faculty Report	<ul style="list-style-type: none"><li>▪ Alan Bethea reported that all classes are going very well. Many students coming into classes have already had CAD in high school, so they are blowing through the material. It is sometimes difficult to slow them down. It is also difficult to give the super advanced students enough to keep them occupied.</li><li>▪ Duane Shaffer reported that overall the two new classes are doing well and are getting positive reviews. The next step may be to raise the expectations a little. Many students do not like manual drawing</li></ul>	
Student Report	<ul style="list-style-type: none"><li>▪ Student Rasha Baher has nine years of experience in architecture. She is taking the SpaceClaim course and is not having any problems. She has used 3DMax in the past, but feels it is good to know other programs. Rasha wants to learn Revit, but is afraid it will not run in the spring due to low enrollment.</li><li>▪ Student Richard Oehler is learning the software—he</li></ul>	<ul style="list-style-type: none"><li>▪ Terry Katschke stated they would like to expand Revit out, but the first round of students have to get through it first. It was offered this fall, but did not run due to low enrollment. At this point, no one has enrolled in it for spring semester, but there is still 5-6 weeks before the next semester starts. Revit is actually part of the Architectural degree, so CAD students may not be</li></ul>

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	<p>currently knows 30% of the software and needs to know 70%. He realizes that advanced techniques have to be learned beyond the class. Richard stated that classes are going well. He learned a lot of the standards in the manual drafting class and he still references the book. He is glad that is still be offered. He is really enjoying his instructors this semester (in all his classes, not just CAD).</p> <ul style="list-style-type: none"> <li>▪ Alan Bethea said that Rasha Baher and Richard Oehler are two of the superior students enrolled in the program. Rasha is looking for opportunities in architecture and Richard is just finishing up an internship at First Solar.</li> </ul>	<p>aware of its being offered in spring. Students present were told to let their fellow CAD classmates know about it.</p> <ul style="list-style-type: none"> <li>▪ Student Richard Oehlers thinks the curriculum is a good approach. Doing the very basic drawings at the beginning helps you realize you are doing the same concepts with the more complex drawings.</li> </ul>
Outcomes Assessment Report	<ul style="list-style-type: none"> <li>▪ Program outcomes were shared with the advisory committee members. The four outcomes listed are what students who complete the program are expected to obtain.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Advisory members were asked to review the program outcomes and take five minutes to complete the ATMAE Accreditation Survey before they leave. Include any additions, corrections, or suggestions regarding the program outcomes in the survey.</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>• The changes discussed at last fall's meeting have been made to the curriculum.</li> <li>• Students in the program are given the basics on several different software programs. Advanced courses are offered as electives in the last semester.</li> <li>• Duane Shaffer explained the changes to the content of CAD 230 Industrial CAD I and CAD 235 Construction and Surveying that is being proposed. These courses are currently geared toward construction; the changes being proposed make the focus more toward mechanical design.</li> </ul>	<ul style="list-style-type: none"> <li>• SpaceClaim has been introduced into the program and seems to be popular. Alan Bethea reported that it is going really well.</li> <li>• If there is a software program that should be offered and currently is not, let Terry Katschke know.</li> <li>• Advisory members present felt the proposed changes were a step in the right direction</li> <li>• It was suggested that 3D stack-up type software should be investigated. This is something students would use after taking GD&amp;T.</li> </ul>
Equipment, Facilities, and Staffing	<ul style="list-style-type: none"> <li>▪ Advisory members were also given a form to complete on short term goals and how to obtain them.</li> <li>▪ The heads on the 3D printer were jammed and clogged. It is now up and running. A more practical and cost effective way to use it in classes needs to be determined.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Advisory members interested in teaching, or knowing of anyone who would be interested in teaching as an adjunct, should let Terry Katschke know.</li> <li>▪ It was suggested to purchase a desktop 3D printer. This may make the program more attractive to students.</li> </ul>
Accreditation Status	<ul style="list-style-type: none"> <li>▪ ATMAE evaluators felt the School of STEM needed to do a better job of surveying employers and graduates.</li> </ul>	<ul style="list-style-type: none"> <li>▪ All programs received a full six year accreditation with a two year report.</li> </ul>
Other	<ul style="list-style-type: none"> <li>▪ Advisory members were thanked for their time and commitment to the program.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Student Richard Oehler wanted advisory members to think about offering internships or co-ops for Owens</li> </ul>

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|  | <ul style="list-style-type: none"><li>▪ Wes Linenkugel is Chairman; Eric Messer is Vice Chairman and Richard Barkhimer is Secretary.</li><li>▪ The meeting adjourned at 10:15 a.m.</li></ul> |   |
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