



Engineering, Manufacturing, and Welding Tech Prep Summit Minutes

Date: Wednesday March 22, 2017

The meeting began promptly at Noon. Wendell Meyers welcomed the group and had attendees introducing themselves.

Attendees included:

Marcia Taynor, Eric Barge, Springfield Clark CTC; John Ciprain, Thurgood Marshall HS; Ann Rush, Butler tech; Josh Newsome, Jim Prater, Stebbins HS; Keith Bernheisel, Adjunct Faculty, and Jim Hill, Ohio TechNet Project Manager, Workforce Development (Manufacturing); 1:00, Tom Singer, Professor, Mechanical Engineering Tech (MET 1151/1231/1301/1371); Gary Kapka, Adjunct Faculty, and Steven McBride, Adjunct Faculty (MET 1131); Wendell Meyers, Bryan Jackson, Tim Bryant, and Josiah Wahlrab, Miami Valley Tech Prep Consortium.

Keith Bernheisel reviewed the CAM 1110 Advanced Machining Options articulation by Portfolio and parts; and CAM 114 proficiency exams. He reports that a new Precision Machining lab has been created at the Festo Plant in Mason, OH. Festo brought their true European apprenticeship model from Germany to Ohio, and Sinclair is partnering with them to provide the training. Apprenticeship students work part of the time, and are in class part of the time. Students are paid while in class and their tuition is also paid by their employer. CAD classes began at Festo in September, and Manufacturing classes are slated to begin with the first cohort this summer, and the second to kick off in the fall. Keith also introduced a pilot “Bridge Program” which will make it easier for students to earn a STEP II certificate by utilizing credits earned from CAM 1109 - CAM 1110 and a 2 cr/hr. internship. This program should advance the top students through the program quicker, while also still allowing the possibility for a dual degree in precision machining and CNC Technology. Keith is the Liaison for all CAM course articulations through Tech Prep.

Keith pointed out that MET 1131 PC Applications for Engineering Technology is a good proficiency course for students to complete prior to coming to Sinclair. (More on this course later in the minutes!) He also discussed the components of the OPT 1100 Metrology course.

Jim Hill distributed handouts and reviewed the “Accelerate Manufacturing” Hybrid program of the Sinclair Workforce Development Department. Many of the courses are on-line, with lab work done on campus. There are certificates available in Computer Aided Manufacturing/CNC and Industrial Maintenance. (handouts available at <https://www.dropbox.com/sh/u4mxou0d9lhwpaw/AAADeZumzldmth6hZt07tE4La?dl=0>) The Accelerate Manufacturing program allows flexibility for those with jobs, who can’t attend class on the regular schedule.

Tom Singer provided a detailed list of items being considered for articulated credit, but due to the constraints of ABET accreditation, all content taught at the High schools must be consistent with that taught at Sinclair. He passed out several handouts pertaining to MET 1231, and explained that there are errors in the project on purpose to mimic real life projects! Tom Pointed out that there are really good GD&T resources/explanations on YouTube by James Thornburgh: https://www.youtube.com/results?search_query=james+thornburgh

Here is the Dropbox link to Tom’s materials on GDT and MET 1231 projects:

<https://www.dropbox.com/s/rzst90fhajw5uz/MET%201231%20Tech%20Prep.zip?dl=0>

School Year

2017

Tech Prep Showcase – April 25, 2017

Thursday, March 23 – GPA’s for MM3

Friday, June 9 – Credit Capture forms due to Tech Prep

Thursday, August 4 – Proficiency testing signup begins

September to mid-October – Jr. Registration

September through November – Jr. Career Exploration Days

2018

Getting Ready for College Night – February 15, 2018

Tech Prep Showcase – March 21, 2018

Tom passed out a handout pertaining to 1371 AutoCAD key items to cover. (See/download all the Engineering Summit handouts at: <https://www.dropbox.com/sh/u4mxou0d9lhwpaw/AAADeZumzldmth6hZt07tE4La?dl=0>) Tom stated that he allows students to use any drawing package, and prefers project submissions electronically. He stressed informing schools and students that AutoCAD software is FREE at students.autodesk.com Tom encouraged the instructors to take a look at Fusion 360-3D Says this is the future of software! There are also tutorials available.

<http://www.autodesk.com/products/fusion-360/overview>

Lastly Tom informed the instructors that Sinclair has developed an Additive Manufacturing Certificate. (We will get this up on the Tech Prep website ASAP)

Chad Bridgeman informed the group that next year's Engineering Day at Sinclair is Friday Nov. 17. He also chimed in that he had many, many companies looking for Engineering Technology interns, including Benjamin Steel, Henny Penny, and P&G. Chad stated that there are nearly 700 students studying in the Engineering Transfer track, and that there was much ease in transfer to UD and Miami Regionals.

Gary Kapka provided two handouts pertaining to Engineering Technology and Engineering Transfer, and discussed the career aspirations of students going into engineering. He informed the group that a student who wants to design at a High Tech firm should be in Engineering Transfer. Students who want to be hands-on making things work should be in Engineering Technology. He shared a story about a female Greene County CC student who studied at Sinclair, transferred to Ohio State, and is now working as a welding Engineer at NASA. He also indicated that the AFRL is hiring Sinclair Grads, and they like some MET in the student's background. Gary recommends that the students stay broad in focus initially, and take as much math as possible. Calculus is highly recommended.

Steve McBride provided a MET 1131 PC Apps for Engineering Technology overview, and distributed an information sheet for teachers, with info on Overall program, Course operation and an Example class schedule for delivery of the course. He stated that he would work with schools using ChromeBooks to make adjustments. Handout is available on the Dropbox link.

Josiah Wahlrab & Tim Bryant reviewed the end-of-year data collection process. A MM3 handout was introduced, and Josiah pointed out the top two measures in the chart (3.0 GPA & Algebra II grade) are in **bold type**, indicating the info is collected through the portal. The other measures must be submitted by the student. Instructors asked for access to the students in their school who are registered or have credit in proficiency classes to assist them with the credit approval process. Josiah is going to look into gathering and sharing this data.

Also note: We received verification from the Provost office that proficiency course grades, processed by Tech Prep, appear on the Sinclair College Transcript and factor into students' Sinclair GPA.

Tim Bryant asked if any new instructors needed a Non-employee Account. He stated that the teacher demographic information is updated for 2017-2018 if the instructor remains a part of the consortium.

Two handouts were distributed regarding credit capture. The goal this year is 100% through the portal. Tim asks instructors to continue with what they have done in the past. Sinclair instructors post eLearn grades.

Student's access their account in the Portal via Sinclair email, and say yes or no to credits available.

Instructors will get an email from Josiah when the portal is ready.

Instructors access the portal through: tinyurl.com/jy9mtal

See the "How to access Tech Prep Portal" handout, and follow the directions.

Portal can also be accessed through link on right side of Tech Prep Website Home Page.

Instructors should post grades where applicable.

Coordinators/instructors can view the status.

Josiah asks instructors to Please try out the portal prior to April!!

Bryan Jackson informed the group of the reduction of paper for this year's senior packets. There will be a "Congratulations letter" with links, along with the scholarship certificate. She showed the new "Your Guide to Sinclair and Tech Prep" trifold brochure that every senior should receive. The brochure includes a checklist with timelines, a list of degree & certificate options, contact info, Sinclair satellite campus location info and a section for personal info to share with an academic advisor. Bryan reminded the group that students meeting the MM3 do not have to take the placement test, and reviewed the BOGO initiative for 2017, sharing the positive statistics from last summer's BOGO, wherein 80% of the students completed the courses they signed up for. He further reported that the "Onsite registration" piloted last year is being changed to "Onsite advising," wherein the academic advisors will develop an academic plan the student will utilize to register on their own. The academic advisors will not be submitting the schedule for the students this year.

Lastly Bryan informed the group that many seniors who did not take a CCP (College Credit Plus) class during the past two years must reapply to Sinclair to update their registration. The students should re-apply from the Sinclair College web site.

Bryan delivered information regarding College Transition (PowerPoint handout) He reinforced the importance of students filling out the personal education info in the trifold brochure before meeting with an academic advisor. Listing courses that credit is anticipated for is very important! Students can print an unofficial transcript on the Sinclair website once grades are posted. Some grades may not be posted until July 1. Bryan also reviewed the Focus 2 Assessment available on the Sinclair College website as well as Understanding Short Term Certificates.

Wendell spoke briefly about student transition programming for one year certification and degrees, a new focus on underrepresented students and non-traditional student programming. Tech Prep will have an increased focus on the matriculation of students into workforce programs, connections to industry, and incorporating those connections into our Sinclair operations. Program of Study documentation is a priority, in addition to increased collaboration to complete pathways for students.