Members Present:

Perry Betterly, Stryker; Dan Branch, Cimatron; Dave Brock, KVCC; Debbie Dawson, KVCC; Rick Garthe, KVCC; Marc Nelson, Parker Hannifin; Art Parker, KVCC; Jennifer Pigeon, Austin/AECOM; Jorge Rodriguez, WMU.

The minutes to the previous meeting were reviewed. Attach web job search data.

Summer Camp – Art Parker
Overview of activity. Well received program.

Zoomerang Survey – Rick Garthe.
Passed out handouts. Decisions were not based on this. Basically a confirmation.

Program Changes – Debbie Dawson
Overview of reasons for changes. Talked about Welding and HVAC enrollment increases. Students need skills-to-work quickly. Jobs 5 years from now don’t exist today.
Detailed review of changes. CAD operator targeted for certification. COA follow on for specialization.

The Certificates of Achievement are shorter with specialization in Solidworks and AutoCAD - each of those are nine credits and build on each other. Intended for specialization - after someone already in field is switching or maybe not too secure in job so getting additional skills and applying those in a different area. Update skills.

AAS had five; three were specific drafting and two engineering. Mechanical misleading because it was intended for more technical not to become a mechanical engineer.
Engineering Tech, this one will transfer into the IME Department - sixty-four to sixty-eight transfers to Western. Students who have AAS have a leg-up in getting internship.
CAD/CAM design eliminated replacing with a Post Associate Certificate. Drafting/CAD Drafter eliminated; core led to employment but needed associates. Occupational Tech Studies takes technical and adds Gen Ed - will be with an emphasis in CAD Specialist. Drafting/CAD Design - revised to Computer Aided Design - a designer can get employed after 2 years.

Post Associates follows on from CAD-CAM – allows additional semester with specialized training without going to a four-year; a number of electives that can offer specialization. Transfers to WMU’s IME Department; Engineering Management; Graphics and Manufacturing depending which degree...we have the courses they need to take here; WMU won’t accept more than 62 credits but the transfer credits were slim before. This was a big step.

Certificate program; it was light previously; a lot that didn’t fit really well. Looked at what skills are necessary; core requirements to get employed; requiring ProE; giving choice of Solidworks.

Course descriptions have been updated. Wanted to change DRFT to Design Technology – advised not to because programs suffer when name is changed - renumbering courses; current numbering confused students; with renumbering new courses can be added without confusion.
Certificate: AutoCAD is in there - one additional class and can take certificate of achievement; times are tough this can help gain employment

AAS – new courses (225, 175, 110, 112 and 180). 160 name change only because it wasn’t obvious to students that we taught ProE. A lot of jobs list FEA experience preferred; Fundamentals of Design is a more detailed design course; it was becoming unbearable to pursue more design applications; apps and creativity; Design for Manufacturability take something and make it easier to manufacture; Analytical Applications is for non-math students; students end up struggling with trig and calc that they are required to take; focus on actual skills they’ll see in industry; things you wouldn’t cover in a traditional of math classes; targets education better; a lot of students shy away because of the required math; if students are undecided for a couple of semesters and have taken “traditional” math courses department will look at individual case and substitute courses if student is qualified.

We did put in place Discovering Technology course pilot class this semester; the students have gone through a couple areas; exposing couple of weeks at a time; does not apply towards program but gives students a chance to see if college training would be effective to them.

These were built into our new Wind program; wind certificate program is where those two course were originally identified as a need.

Question raised regarding a textbook for this math course. Still looking may have to piece from several different books, math as well as technical courses.

How we approach some of these changes. Majority of tech faculty involved in discussion; more integrated approach - classes are going to be linked. Mechanical Marathon has drafting, capstone Machine Design but also tied with ELT and Steve Walman from business. Intent on giving students what they’d get out in industry. Working knowledge; know what questions to ask; I know how this impacts other areas. Knowing other disciplines is going to help you; if you’re an accountant, learning a little bit of drafting can make you a better accountant in an engineering/manufacturing firm.

Post Associates: few core classes, a lot more machine tools; CAD/CAM added; give more options depending on existing training or adding to knowledge base to specialize how they steer their PA Certificate; giving them an education that will apply instead of having to switch around; courses/programs building on each other.

Have had to revise the strategies to get the best bang for our buck. Current applicable skills for students. Fundamentals; instead of Technical Drawing - getting away from some of the drafting and add design piece.

We’re doing assessments now and have shared these with you and will continue as we go through changes in programs - we’ve given our best shot; keep going through our assessments asking do we have everything? did we take a piece out that we need to put back in? we need to make sure we are reviewing to make sure our students are getting what they need; working with other colleges throughout the state

Dave reported that internships just not hiring; what we’re thinking about is a hosted internship. An opportunity to put students to work here at KVCC on projects needed here maybe paid for that – if they put in 250 hours on a project give them a letter of recommendation; rewarding for student to have real world experience; it was a real job I got paid for it
Suggested that students prefer to go out into industry but when industry is not hiring then have this option.

Reorganization is done now what? A lot of work ahead. Book issues, so there’s still a lot of questions to be answered. Putting schedule together. Taking design classes targeted toward prerequisites. This has not been approved by Board. Holding up publication of fall schedule so as not to confuse students. Goes to Board March 10 and if approved will be included in the Fall schedule to be published March 11. Made flyers, met with marketing and counselors. Plan on visiting high schools EFE and counseling our current students. Focused in directions.

Would like to hear from industry. What can we can do to assist you?

Revit class? Proposal on Dean Dawson’s desk tomorrow. The training cost? Compared to the semester cost? Rich Garthe took Intro Revit class this summer in Chicago and realized couldn’t do justice to software without architectural background; Arnie Buckley’s (local architect) name kept coming up. Outstanding reputation; with his years of experience, used to be at a big architect firm, now independent, commercial and residential experience. Learn more in a semester rather than a one week class. We can give depth. Student versions of Revit free for fourteen months.

Article regarding Revit modeling software, manual was so much work and room for error, books and books, redraw it, 2D, all the admin time and still saw mistakes. Where this is heading - going to bridge that gap - Revit not redrawing it twice.

Architect top growing job in the next 10-16 years. Highly competitive; now good paying with good growth.

Energy awareness - green class; LEED brought up with Architecture Focus Group; if we had a LEED class we could fill it. A lot of people are going to get LEED certification; stacks of material to review in prep for test when you have that much material to go over a course would be great - not any around here.