

Approved Minutes from
Curriculum committee May 3, 2018

- Minutes accepted
- **Intermediate Korean:** Mason is working on a BA in Korean Studies – first on east coast? Helpful since they have a campus in South Korea. Ffx County offers Korean (3 high schools, 1 middle, 1 elementary). Working with Mason to adopt their placement test. KOR 295 has been offered on and off. Believe the issue has been that students have not seen it as transfer course. There has been a mix of heritage and other students taking the 101 and 102. Comment regarding previous meeting where heritage speakers in a Spanish language class was seen as a negative by the cluster but now it seems to be a positive to have a mixture. Why? Having a 200-level course for heritage speakers to go is ideal – it's the 101 and 102 courses where heritage speakers may cause concern. Having this option for KOR is helpful. Will it only be at Annandale? Yes, for now until it can be built up. Do not want to spread ourselves too thin. Is it correct that the SLOs are so similar for both 201 and 202? SLOs are for same for a whole program – the way they are assessed is what should differ. **Approved.**
- **Electrical EGR discontinuance:** Need to communicate to faculty and students that this program is still available, but just under the umbrella of the revised AS Engineering degree. EGR faculty is taking the time to walk students through the EGR degree to see what electives they need. How does Mason feel about this? They agree. EGR electrical faculty are meeting with Mason on May 11 to further discuss transfer info. Reminder: when a program is closed, students have 3 years to complete the program. Since we are not requesting any course closures, there should be no problem for students to complete. **Approved.**
- **2 new EGR courses:** EGR 295 accepted by Vtech, Mason, VCU but in its current form it is burdensome (not a real course, needs to be manually and individually approved by 4-year schools). For Deans Course Review (state level) review, should take off pre-requisites. But can still have these pre-requisites for NOVA. Is EGR 123 active? It's used by Lord Fairfax but it doesn't represent what is done in the classroom for us and doesn't meet our needs. **Approved.**
- **EGR Tech revisions:** Although changes are expansive, the goal is the same – to meet the needs of technology industry. The current program is not currently mapped to outcomes requested by industry partners. Industry partners hail from western side of service area, data Ops Centers in LO, Micron and BAE in MA. Molly shared how actively engaged Micron and BAE were in developing this curriculum to meet the workforce needs. They are currently using our automotive students for some jobs – but they are not quite what they are looking for. Any commitment for internships? Yes! But our students can't currently meet their needs. Because technology changes so quickly, will the program be able to keep up with changes and keep our students current? Yes. This is a growing sector and now many people are retiring which creates more demand. Micron takes 20 of our students for internships each year. We have commitment from CTE groups in Prince William, Manassas, and Manassas Park schools to help recruit students. Will this be a stackable program? Not at present. The skills are very

specialized. Mason has shown interest in coming up with a 4-year track in this area. What is the plan for advising between the EGR AS and EGR Tech AAS; can be confusing for students. Previously there was more confusion between these two degrees but now these revisions will make the differences between these two programs more distinct. John Sound: revisions to EGR Tech needed in order to be more efficient in responding to industry needs instead of creating a new degree which takes a lot of time with our process. Question about ENG 115 – ENG 111 is a pre-req, right? That was removed by ENG cluster. If we see that this degree is starting to be transferable to another school, will we revisit this English choice? Yes. Was there thought to making this ENG 111 OR 115? Yes, but the technical writing aspect of 115 is what the industry partners want. It is a better fit for the ultimate job. Are these changes a 95% difference from the previous program? For outcomes, no; courses, yes. Is the main reason for the change to avoid the long process of a new degree? Yes. Drs. Ralls and Schiavelli have asked us to be more nimble and responsive to industry. But are we getting close to a new CIP code by making these changes? Still in the EGR technology umbrella, just updated to match current technology. Previous program was technically out of alignment with the CIP code. Although supportive, it should be noted that we have to be careful about skirting the proper process so we don't create trouble for the college. Are other community colleges with this program more aligned with the new proposal or the current curriculum? Looked at Patrick Henry and Tidewater. Not duplicating a current program, but revisions are more similar to other programs. No steps were skipped regarding proper process. Current EGR Tech program is not relevant for current EGR technology. How are we going to shift from current program to new program? What will happen to faculty and equipment that have been set up for the current degree? Should we consider borrowing from other campuses? MA has budgeted to hire a faculty member for this program. AL has a construction mgmt. faculty who will start teaching CIV and ARC courses. Rudy is teaching some of those courses but is also qualified to teach some of the new programs. John Sound is cross-credentialed and can teach new courses. Don't have an adjunct base yet – needed for Data Center. Looking for someone with industry experience to help with the program. Still discussing this across campuses. What are credentials needed? Because it's a non-transfer, Bachelor's in EGR Tech (ie. From ODU) or military background. EGR doctorate not necessarily needed because prefer application coursework, not theory. What about current students in program? Not many that are close to graduation. All will be contacted, if less than 50% finished – may want to recommend changing to new degree. Pam was told previously that her faculty would not be impacted. Now need to have a conversation after meeting. What about equipment? A lot has already been purchased through a grant. **Approved.**

- **Info item (from EGR Tech conversation)- Drafting Certificate:** Moving to Architecture program. Moves seamlessly without changing a single course.
- **Data Center Ops Specialization:** only one other 2-year college in the country that has this. Worked with No VA Technology Council (Jim Leach in particular) and data center leaders. Steven Reynolds (consultant) was present to talk about how data centers work. Needs are for industrial facilities maintenance, not to work on computers. Salaries range from \$65,000 to over \$85,000. These jobs cannot be outsourced – need people on site

at the facility. There is a longevity for data centers. LO county has highest proliferation of data centers in the world. Need 15-25 people for each facility. But need a large number of people in the pool. Projections show that there will be a heavy demand for these workers in the near future. There is no true CIP code that relates to this particular industry. It is a hodge podge of different ones in EGR tech. Which means having this under the EGR Technology program makes sense. Executive from Silicon Valley came out to review because they are looking at recruiting more women in this field. Handout of survey to students at LO, MA, and AL. **Approved.**

- **Cloud Computing Specialization:** This is largest service Amazon (AWS) provides. Workforce Development has already been working with AWS for internships and building skills for an industry certification. This has made NOVA an AWS Academy member which gave the credit side insight to their credentials in order to build this curriculum. Used 15 credits of IT electives in the EGR Tech degree and found courses from the VCCS master course file that were for cloud computing. Helps prepare for 5 certifications. Curriculum is generic enough that it is not just for Amazon – also works for Google and Microsoft. Program has the ability to serve newly graduated high school students and also current industry workers who are looking to upgrade skills. How will you get the equipment for these hands-on courses? This equipment is being purchased. Do we have the right credentials for faculty who will need to teach these courses? These are not for Fall 2018. We will develop courses and determine faculty needs to hopefully start in the Spring. Bernie (MA) showed specific knowledge in this area. Longtime goal is to infuse cloud computing into our existing foundational ITN courses. Are the ITN courses available online currently meeting the needs of this proposed program? The prerequisites for the 3 new courses (ITN 213, 254, 257) are currently online but not the new courses. They are hands-on and will be face-to-face. Is professional development needed for faculty? If so, how many and how will it be delivered? Amazon has offered to come in and provide professional development. First round of training in the Fall for the initial campuses, second round in Spring 2019 for other campuses. Will perform a skill assessment of current NOVA faculty. How much is Amazon contributing to this program? They are greatly supportive, but have silos that have made this tricky. AWS Educate and AWS Academy seem to have competing outcomes. Also surveying students to see if they would need support for the credentialing exams – so that can be shown to Amazon. Also working with Columbus State community college – working with Amazon more on the software development side. Steve Partridge mentioned that AWS is already using NOVA as a model because we are so far ahead of the curve with the education area of this industry. Could we also add a Security + certification since ITN 260 is in the program? AWS backed away from this because they require providers to provide their own security. Should we offer a list of elective courses that are passport courses in case students decide to transfer? They are listed on page 19. **Approved.**
- **Dental Hygiene:** BIO 205 is not in the proposal but is also an acceptable alternative to BIO 150. 205 is not offered often because 150 was created for health science but some students still take it because it transfers to a few schools. Note that the SOC course on the semester layout should be 200 – Principles of Sociology, not 201. For the multicultural presentations in DNH 227, how are students taught to do them? The

design and development is taught in the curriculum for DNH 226 and then implemented in DNH 227. Is this okay with your accrediting body? Yes. Concern about removing the CST 229 because activities with a multi-cultural lens are very different from curricula specifically designed for intercultural communication. It seems like a step backwards. Have you ever partnered with CST faculty to see how to best to integrate intercultural communication in the current dental hygiene courses? No but not opposed to doing so. Decided to remove the CST 229 because we were the only program in the VCCS requiring that and needed to remove a course to accommodate the new science requirements. Dr. Reeves is open to the collaboration with CST faculty. Note that there always need to be careful consideration when removing communication courses because this skill is top on employers' list of required job skills. Further concern about removing CST because Northern Virginia is more culturally diverse than the rest of the state. This program has a very diverse student population and communication is key and integrated into many courses with presentations and exposure to various community populations. There are also currently SLOs for communicating with diverse populations. **Approved with 2 nay votes.**

- **Advisory Committees:** Workforce will help to identify relationships. Where did the number 12 come from? Can someone be sitting on the board for 6 years and still be 'considering hiring'? That can be strengthened so that a board member may not be renewed if not hiring. But that will be difficult and maybe unrealistic for IT councils. But if we can't find people who don't need Associate degree graduates, maybe we don't need that degree. Also, IT applied degrees share courses with transfer degrees so advisory meetings serve both programs. But startups may only need 1 or 2 interns so the 'considering hiring' offers flexibility for that person. What about people outside the Northern Virginia area who could still be helpful. There will be an exception listed. How will workforce work with academic faculty to collaborate on recruiting advisory committee members? Companies are now realizing that they need trainings to be flexible enough so employees can continue on with education seamlessly. We need to communicate to academic faculty that workforce needs to be invited to these meetings and workforce should provide a list of who will be working with what programs. Need to have a plan to keep employers engaged when they are no longer hiring or no longer in business but still want to be involved. This revision has been necessary because some of our advisory committees do not meet or don't have members that are participating in a meaningful way. (side note: we will be having transfer advisory committees for the transfer programs that will include representatives for senior institutions with a few industry members. Should consider having industry because we don't want to be completely focused on whichever transfer school rep is in the room.) Concern that a maximum term might be too limiting for small businesses with only one or a couple of owners. Committees can recommend an exception. **Approved with 1 nay.**
- **EMS program revisions:** VCCS-wide revision follows new accreditation standards, intermediate credential is going away, congruence with new nursing program. Could be Fall 2018 or 2019. NOVA will implement in Fall 2019 in order to make sure revisions are well-developed and have a teach-out plan. Also, we currently do not offer BIO 145 so it needs to be developed. Why BIO 145 or BIO 151? Doing away with the math

requirement, What other courses? Could take BIO 141 and 142 and another Gen Ed instead. Concern that BIO 145 will not have the same rigor as BIO 141 and 142 and that faculty credentialing for 145 will be less than 141 and 142. But this is a VCCS change so we have no control. This will come forward to curriculum committee probably around December 2018.