**University Curriculum and Academic Affairs Committee**

**UCAAC**

**Meeting # 14**

**March 10, 2020**

**Stalker Hall, Room 211**

**CAAC Members Present**: Dan Clark, Farman Moayed, Rolland McGiverin, , Margaret Hill, Winnie Ko, Renee Bauer, Jeff Kinne   
**Absent:** Blake Rayfield, Brian Schaefer  
**Guests**: Randy Peters, Mark Collins  
**Executive Committee** **Liaison**: Shawn Phillips  
**Ex Officio**: present – Whitney Nesser, Angie Smith, Bassam Yousif, Judy Sheese, Jim Smallwood.

Absent but kept on the weekly invitation – Kelly Wilkinson, Susan Powers, Linda Maule

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| **Agenda Item** | **Discussion** | **Recommendation/Action** |
| 1. **Call to Order** | Winnie Ko called meeting to order at 12:31 |  |
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| 1. **Approval of Minutes** |  | Motion by R. Bauer to approve minutes, second by D. Clark. (7-0-1) |
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| 1. **Review of Automotive Engineering Technology Major** | Randy Peters began by noting that in all of the following proposals he sponsored, the Mathematics pathways are being revised due to accreditation recommendations. They have all been formally changed to require Calculus (MATH 131). Additionally the MET 130, introduction to technology course has been revised from 2 credit hours to 3 credit hours in order to incorporate more career readiness requirements. The department also chose to remove the Powers Systems Course, which was operated by the Mechanical Engineering faculty, which wanted the course to be less automotive. The faculty also wanted a two-semester sequence of courses for a senior project, with ET 499 added. Overall there was a reduction of 2 credit hours.  J. Kinne asked for clarification on which was the new course?  R. Peters responded that it was ET 499.  J. Kinne asked if anything was known about how many would need prep courses before calculus?  R. Peters noted that the numbers are growing smaller as they work with students who wish to enter the STEM fields. Calculus is not currently required in any of the majors until this revision.  A Smith pointed out a prerequisite that needed revision. |  |
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| 1. **Review of Civil Engineering Technology Major** | R. Peters again mentioned the mathematics and MET alterations. In response to accreditors, they have also added a second class in soils, so they added a soil mechanics class. In adding this they were cognizant of having to keep credit hours down, so they removed a fluid powers class and lab. They also installed a two-semester sequence for a senior project. They also split an existing course into two separate courses: Structural Analysis and Concrete Design. They then removed one course out of an elective choice sphere. The former CNST 111 was redesignated CNST 118, and they removed CNST 201 to pave the way for another removal, that of Engineering Analysis. He stated that at 73 credit hours, the department was doing the best that they could to keep down the total. This major needed statistics, so added MATH 241.  J. Kinne asked which classes were new?  R. Peters stated ENGR 220, 423 and 427, the latter two split from 410. |  |
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| 1. **Review of Engineering Program** | R. Peters stated that this new program was in its 4th year and that they had a graduate with two more this spring. Some 260 students have been admitted to the program majors. They have applied for accreditation and will go up this Fall, but changes were needed as accreditation requirements have altered since the program originated. One change is the addition of ENG 235, Circuit Analysis, requiring a pre-requisite of Calculus and PHY 116. They needed to change the wording that SAFETY 341 met FS Qualitative Literacy, now that MATH 241 included. The proposal also changes some prefixes (TMG to AT), which will look better for accreditation. The faculty added a two-course senior project sequence (explained in other program reviews today). We took out two courses in some concentrations (CBET 410 and ENG 423) and added a solid modeling class. Even though majors within this program are large, the properly prepared student may complete them within the 120 credit hours.  J. Kinne asked whether the faculty will have enough faculty with doctoral degrees?  R. Peters responded that it would. Seven are on the faculty now with doctoral degrees.  B. Yousif asked whether they needed MATH 241, as R. Peters likely did not know that PHY 116 has been approved for FS Quantitative Literacy.  R. Peters noted that he was not aware of that fact, so yet it might alter the program.  J. Kinne asked about enrollment.  R. Peters answered that throughout all engineering programs, there are over 500 students.  J. Kinne also asked how not making the catalog cutoff date might impact accreditation.  R. Peters noted that if approved they can at least share with accreditors the fact that it would be eventually. |  |
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| 1. **Review of Engineering Technology Major** | R. Peters noted that the faculty removed 5 different concentrations that overlapped with other existing programs. In making the major distance deliverable, they also had to make sure it met accreditation standards. They still must work with the Chemistry Department. Part of the changes involve the Mathematics addition of Calculus, already noted. Retooled entire program to meet accreditation standards. The program was not accredited before. |  |
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| 1. **Review of the Engineering Technology Management Program** | R. Peters noted that his program is geared toward those arriving with an Associates Degree, most coming with an AS. All the previously discussed changes (as with Math requirements and Engineering program changes apply), but alterations allow for those arriving with the AS or AA.  B. Yousif asked whether they had talked to Chemistry about capacity?  R. Peters responded that CHEM 100 does have the needed seats. |  |
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| 1. **Review of Manufacturing Engineering Technology Major** | R. Peters noted the changes involved the Math pathway noted previously and the change in the Introduction to Engineering from 2 to 3 credits. |  |
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| 1. **Review of Mechanical Engineering Technology Major** | R. Peters opened by noting that this was the current “flagship” major of the engineering program with 200+ majors alone. The faculty elected to alter the CAD courses, making a former elective into a requirement. They also condensed MET 203 and 403, into a single Solid Modeling class, MET 303. |  |
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| 1. **Review of Packaging Engineering Technology Major** | R. Peters noted again the alterations to the Math pathway and the two-course senior sequence. Manufacturing 225 was made a requirement rather than an elective, and also requiring environmental issues in packaging.  J. Kinne noted some odd sequencing of courses.  R. Peters explained the apparent oddity by noting that students take courses as they are listed in MySAM, when that listing is not usually the ideal envisioned by the faculty, so they decided to list the courses in the proposal as they would like students to take them. |  |
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| 1. **Traffic Engineering Technology Major** | R. Peters explained that they realized the program had a hidden prerequisite with regard to Mathematics classes. They left MATH 129 in this major, as it was not going along with the aforementioned alterations in the pathway. |  |
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| 1. **Unmanned Systems Major** | M. Collins explained the alterations to this major. It began in 2012, so it is a new major. They fielded complaints from students of unnecessary classes and a review showed that originally the program was linked to aviation, while their majors did not need all of the same aviation courses. They took out aviation courses, such as airport operations or aviation security, and replaced them with classes from Computer Engineering Technology and Earth and Environmental Systems. They also listed ENVI 110/110L as the most appropriate course of the FS Science requirement.  J. Kinne asked whether the courses outside of the home department have appropriate amounts of seats to accommodate your students?  M. Collins noted that they had contacted them, and that they do. They have about 85 students currently and project growth of about 5% per years.  R. Bauer asked why the program no longer has Air Traffic Control?  M. Collins responded that it was too focused on aviation, whereas the industry was moving into non-aviation unmanned systems, such as trucking, i.e. ground and water, and not just aviation.  J. Kinne asked what types of jobs did graduate seek?  M. Collins explained that they found positions as pilots, managers and engineers. Many went into the military.  A Smith noted that many of the students double major. Will the changes impact this?  M. Collins noted that this likely would change, but minors, such as in Computer Engineering Technology or ENVI might be very popular.  M. Collins hoped that these changes would make the fall catalog.  W. Ko explained that this is up to Academic Affairs in the Provost’s office. |  |
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| 1. **Review of a major, minor, and a program that has minor revisions** | The following programs were noted in the agenda and on Curriculog as having the following minor alterations:   * Automotive Technology Management Minor (prefix changes). * Early Intervention Non-Licensure * Lean Six Sigma Certificate (prefix changes) * Lean Six Sigma Minor (minor revisions and prefix changes)   J. Kinne asked for clarification on the non-licensure program noted above.  J. Sheese responded that they were replacing one course to make it more clinically-based. |  |
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| *Motion to Suspend the rules* | *Note – CAAC default rules do not allow curriculum to be voted on at the same meeting it was presented. The committee can vote to suspend these rules in order to vote at the same meeting (i.e., to avoid needing to meet only to vote, or to get a proposal moved along a week sooner).* | Motion to suspend the rules by J. Kinne, second by R. McGiverin. (8-0) |
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| 1. **Approval of All items Reviewed above during this meeting** |  | Motion to approve by J. Kinne, second by R. Bauer. (8-0) |
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| 1. **Old Business** | NA |  |
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| 1. **New Business** | W. Nesser noted that the School of Nursing is restructuring and that this body will be busy. Just wanted to give CAAC notice, as the school needs to get this done and to the Senate and Board by May. |  |
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| 1. **Senate Executive Report** | S. Phillips noted the approval of the Energy Technology certificate and the various SSE licensure eliminations. They also approved the language on the redundant minors if majoring in that area. |  |
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| 1. **Chair’s Report** | W. Ko noted that there would likely not be a meeting next week. The Student Government Association responded that they would be sending at least one student to future CAAC meetings. Finally, she sent out documents from K. Wilkinson that CAAC should examine before the next meeting. |  |
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| **Adjournment** | Meeting adjourned 1:31 PM | Motion by J. Kinne, second by F. Moayed. |
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