ATLANTIC CAPE COMMUNITY COLLEGE

CURRICULUM COMMITTEE

October 18, 2018

Minutes – *Approved*

Attendance: *M. Bolicki, L. Campbell, A. Chelius, B. Clark, O. Hernandez, M Kammer, L. Lemons, R. Manimaran, P. Manns, A. Nigro, B. Osler, H. Peterson, K. Zaniewski. Not present: L. McGlynn, Excused: E. Russell. Guests: A. Jou, S. Marzelli, J. Taggart.*

I. **Approval of September minutes –** The minutes were approved.

II. **Curriculum Proposals**
CISM148-Problem Solving Using Scripting, *new course,* **S. Marzelli**
Stockton has redesigned their Computer Science curriculum. They asked us to add this course since we have a transfer agreement with them. The course was modeled after Stockton's course and developed for CIS majors who will be transferring into Stockton's B.S. in Computer Information Systems.
APPROVED

AVIT225-Mobilizing a Drone-Powered Economy, *new course,* **Taggart, Jou, Hernandez**
Part of several new programs being developed as part of the NSF grant regarding the need for technicians to repair and operate drones. Many are interested in drone-specific, small business development. Students are looking to monetize their drone skills.

-Is there a textbook? Jim - free e-books will be used. This is still an emerging field. O. Hernandez stated that he has a book recommendation that will be sent to Jim.

-Who will teach the course? Jim – Two potential instructors have been identified.
Transferability? Jim - It may transfer as an elective, but the course will not be part of a transfer program.
APPROVED

AVIT250-Small Unmanned Aircraft Systems Maintenance & Repair, *new course,* **J. Taggart, A. Jou**
This course is the centerpiece for the new drone repair programs. There will be a significant future need for repair of fleets of drones for police departments, businesses and other agencies. Currently, there are very few places that complete drone repair. FAA defines UAS as "aircraft." Planes and helicopters must have repairs completed by certified technicians. Currently, there are no certification programs or requirements for UAS repair, but that may change. The responsibility for small drone repair currently falls on the "pilot in command."

The Form A Checklist indicates that classroom materials are not available. NSF doesn't fund classroom material. The college has another grant application pending (private trust that funds aviation programs in FL and NJ). We've requested $250,000 to fund a "Repair Center." The Physics lab in ML and CM has the proper safety equipment to run the course.

It was noted that the course probably won't be offered for two years since this will be a 2nd year course for the programs.

APPROVED

AVIT290-Unmanned Aircraft Systems Capstone Project, *new course,* **J. Taggart**
Course will be included in the three new programs and will have a lecture and off-site lab component (1-1-2). Provides students with an opportunity to develop, conduct and present on a meaningful drone project. There were some concerns about the CRC (Credit Review Committee) having an issue with the lab component of the course. They may consider this a fieldwork course which would require a stated number of field work hours. If the state denies approval of the course as submitted, the course can be revised. Internally, the college has defined fieldwork courses as having no lecture component and students are not usually accompanied by the instructor for the off-site component. This course will involve the students and instructor in the field together for the lab portion.
Approved *(6 approved; 2 opposed; 1 abstained)*

ENGR125-Introduction to Electronics, *new course,* **A. Jou**
New course will be included in the proposed certificate and degree programs. Similar courses are offered at Rowan and Rutgers. Will cover AC/DC electric currents and electric laws as well as soldering. Course will be run like a lab science (3-3-4).
APPROVED

Small Unmanned Aircraft Systems Field Technician, A.A.S., *new degree,* **J. Taggart, A. Jou**
Program will prepare students for a career as a small-unmanned aircraft systems technician. Covers sUAS operations, general maintenance and repair, use of sUAS for collection and processing of aerial images and videos and geospatial data collection.
APPROVED *(1 Abstention)*

Small Unmanned Aircraft Systems Field Technician, *new certificate*, **J. Taggart, A. Jou**
Program courses are similar to the degree program. Six credits of general education are required vs. 20 credits in the AAS. All courses/credits completed in the certificate can be applied toward the degree.
APPROVED *(1 Abstention)*

Small Unmanned Aircraft Systems Repair Specialist, *new prof. series,* **J. Taggart, A. Jou**
This is the second UAS related professional series program. The new series consists of 15 credits and includes the following courses: AVIT140, AVIT250, AVIT290, CISM125, and ENGR125. All courses/credits can be applied toward the Certificate and/or AAS degree. The first series, UAS Specialist, consists of ATCT120, AVIT135, AVIT140, AVIT185, GIST101, and a choice of either AVIT263 or CISM122. These credits can also be applied toward the other programs.
APPROVED *(1 Abstention)*

III. Other Business

Charge #9: Technological Competency Update

L. Lemons updated the Committee on a state-wide AAAG meeting she attended regarding the 60 credit limit for associate's degrees. She asked about Technological Competency and how other schools satisfy the requirement. The methods vary, but it doesn't need to be satisfied with a single course. If a degree program is heavy on technology (eg. Science degrees), a sequence of program courses may be able to satisfy the requirement. An admissions placement test is still an option. Laurie is also working with the Technology Committee to meet as a subcommittee and work on the

charge together. B. Zilovic, Chair, Technology Committee, is discussing this with his committee today. Per charge 9, we need to present suggestions at the November Faculty Assembly meeting.

Laurie requested that committee members email her with their department responses to the questions from last month's meeting.

Fast-track option for degree changes (60-credit)

L. Lemons asked the Committee if they'd like to consider fast-tracking degree changes associated with the 60 credit limit. Departments & deans would still need to approve Curriculum Form Bs, but the forms could then go to L. Lemons and J. Katz for final approval. They would bypass the Curriculum Committee. We could also have specific criteria for fast-tracking, such as remove a single course vs. numerous program changes.

The state (NJPC or NJCCC) is not planning to reduce the general education requirements so most changes will involve program courses.

The Committee decided to continue reviewing all proposed program changes rather than use a fast-track option.

Adjournment