

**STATE CENTER COMMUNITY COLLEGE DISTRICT  
INTER COLLEGE OR INTRA DISTRICT COMMUNICATION**

**DATE:** May 4, 2018  
**TO:** Dr. Becky Barabe, Dean of Instruction, Applied Technology Division  
**FROM:** Ron Cerkueira, Instructor, CADD Program  
**RE:** Advisory Committee Meeting Minutes

Our meeting this year occurred on April 26. The members were informed of the meeting by email. The agenda and committee members are included in this document. The following seven members were in attendance: Ernie Gee, Pastor Torres, Dean Lloyd, Dale Herzog, Linda Romero, Taylor Jessen, Jose Saldana.

**FRESNO CITY COLLEGE  
APPLIED TECHNOLOGY DIVISION  
COMPUTER AIDED DRAFTING AND DESIGN PROGRAM  
PERKINS - ADVISORY COMMITTEE AGENDA**

6:15 p.m. on April 26, 2018

**1. WELCOME**

- 1.1. Introduction of members
- 1.2. Please update the mailing list

I welcomed and thanked the members for attending the meeting. I then apologized on behalf of the College and Division for not having enough food for our guests. I asked everyone to introduce themselves and to update the contact list.

**2. NEW BUSINESS**

- 2.1. CADD PROGRAM
  - 2.1.1. Curriculum
    - 2.1.1.1. New course offerings
      - 2.1.1.1.1. Introduction to 3D Printing
      - 2.1.1.1.2. Manufacturing Processes
      - 2.1.1.1.3. Plastics (mold making)
      - 2.1.1.1.4. Converting to Inventor
      - 2.1.1.1.5. other suggestions

I discussed that the program will be going through the curriculum review process this fall. I explained that this is required every five years. We then discussed the new courses listed above. I explained that currently with only one fulltime faculty it is very difficult to write new curriculum and then find adjunct instructors to teach the courses. I said I still believe the program is missing out on the 3D printing craze as I believe it is a great opportunity to entice students into the CADD program. I said the 3D printing should eventually be a program all by itself. The committee agreed with the list of possible new courses and also mentioned including PDM into one of the courses. SW Manage was also discussed. I indicated I would look at where PDM could be included. I told the committee I would send out the course outlines for the courses being submitted to the Curriculum Committee next fall for their input and approval.

## 2.1.2. Scheduling

### 2.1.2.1. Yearly

### 2.1.2.2. Compress Program length

I informed the members that the college was moving to creating schedules one academic year in advance. I also said the plan was to have students enroll for one year instead of one semester. I further explained that the Division Dean would like to compress the length of time it takes to complete the program and that I was looking at scheduling options to shorten the program to three semesters. I explained since we do not have T102 to use anymore it is challenging. Many members were concerned that working students would not be able to enroll or complete the program if it moved to a four or five day a week program.

## 2.1.3. Dual enrollment

### 2.1.3.1. Central HS, Dinuba HS, Reedley HS and Selma HS

I informed the members that we were offering dual enrollment at the high schools listed. I reminded them that these students were earning college units while taking these classes. The hope is that these students will enter our advanced classes and earn their certificate or degree sooner.

## 2.1.4. Program Review

### 2.1.4.1. Program Discontinuance

I explained to the committee what PR was and that every program must submit a report. I went on to say that I did not agree with the PR Committees findings and that I was going to send a letter stating my position. I also said that I had spoken with my Dean and the Vice-President of the College. The entire committee was shocked to hear that this was even being considered. All of them stated how the program helped them achieve their goals at one point in their life. They asked what they could do and I replied that at this time I would keep them informed and we could determine that later.

## 2.1.5. Entrepreneurship Certificate

I reminded the committee that last year the entrepreneurship instructor, Amber Balakian, had contacted me about creating a new certificate for students that wanted to have their own business. I told Amber that although I liked the idea I did not have the time to do this. Amber said she would do all of the paperwork required. I asked the committee for their approval again and it was unanimously supported.

## 2.1.6. NC3 Certifications

### 2.1.6.1. 3D Printing – Dremel

### 2.1.6.2. Precision Measurement Instruments – Starrett

I informed the members that I would be offering students several new certification exams this semester. I said that I would still be offering the CSWA and CSWP exams too. I explained that the new certifications were in 3D printing and precision measuring, items which I was already teaching. Furthermore, this would give students industry recognized certifications to include in their resume. I told the committee that my Dean had secured the funds to acquire the new equipment required. The members agreed that this was beneficial to the students and supported them.

## 2.1.7. Lab Technician

I reminded the committee that this item has been on many agendas in the past and will continue to be until a lab technician is hired or assigned for the maintenance and upkeep of the equipment and the T 301 lab in general. The committee was surprised that the college would invest in equipment and a lab space and not have a technician assigned to maintain it. I further informed them that at our last

Department Chair meeting there appeared to be a movement to support a shared technician for the lab which I fully supported.

#### 2.1.8. Instructors fulltime and Adjunct

I reminded the committee that this item has also been on many agendas in the past and will continue to be until a fulltime faculty member is hired to assist with the running of the program. I shared that it has become too much to expect one instructor to be responsible for everything associated with this program. The committee was supportive of another instructor. I further informed them that at our last Department Chair meeting there appeared to be a movement to support a fulltime faculty member in this program.

#### 2.2. SOFTWARE

##### 2.2.1. AutoCAD 2018, SolidWorks Academic 2018-2019, Geomagic DesignX, Point 2 CAD & a number of slicing programs for 3D printing and or STL file manipulating

I informed the members of the software packages that would be used in the next academic year and the committee supported them.

#### 2.3. NEW EQUIPMENT T300/T301

- 2.3.1. Laser Scan Arm
- 2.3.2. Laptops (4) for scanners/digitizers/printers
- 2.3.3. Metal 3D printer
- 2.3.4. other materials and supplies

I shared with the committee the need to replace an old digitizing arm because it cannot accommodate a laser attachment. The rationale for the laptops was to make the scanners truly portable and to assist with sending jobs to the new 3D printers. The metal 3D printer is the next type of printer the program should acquire. The other type of 3D printer to investigate would be an SLS type of printer. I also mentioned that there are other smaller pieces of equipment that need to be purchased to support the 3D printers and scanners. Lastly, I mentioned the need for materials and supplies to run in the 3D printers and for other processes occurring in the lab. The committee supported all of these items.

#### 2.4. FACILITIES

- 2.4.1. T300, CADD lab
- 2.4.2. T301, Additive Manufacturing lab
  - 2.4.2.1. Double Door entrance
  - 2.4.2.2. Space needs

I informed the committee that currently the T300 lab is fine but probably in two years it would need upgraded computers. The T301 lab has been out grown by the equipment acquired. The need for a larger space with room to allow students to work on their projects is evident. I briefly talked about the West-Side Campus and how that could open spaces on this campus. I mentioned that one piece of equipment could not be sought because it would not fit through the door hence the need for a double door. The committee agreed and also supported a larger space.

#### 2.5. PERKINS FUNDING

- 2.5.1. Purpose, use and approval of funds
- 2.5.2. Travel & Conference

I informed the committee that currently the Program was receiving Perkins funding for equipment, travel and conference. I went on to explain the purpose and use of Perkins funding. The

committee was in complete support and approval of the use of Perkins funds as needed for the Program.

### **3. OLD BUSINESS**

- 3.1. Form Labs Form2 printer, Stratasys F370 FDM printer, desktop Plastic Injection molder and Filament extruder & spooler

I informed the committee that I was presently surprised that the equipment listed was funded. The equipment was being purchased with Perkins and StrongWork Force funds. Some of the equipment was already ordered and should be in before the end of the semester and one other would be here by next December. I expressed my appreciation to our Dean for approving the items and moving forward with their purchase. The committee was grateful as well.

### **4. OTHER**

- 4.1. Potential Advisory Committee Members

I informed the committee that I continue to seek out individuals that would be beneficial to the program. I asked the members that if they knew of anyone to please put me in contact with them.

### **5. ANNOUNCEMENTS**

- 5.1. Career Skills Challenge 2018, 2D & 3D contests, Thursday, March 15
- 5.2. CADD Club, Enabling the Future and IPMS/ Fresno Scale Modelers Annual Model Contest and Show, Saturday, August 25

I shared with the committee that Dean Lloyd and I hosted two Career Skill Challenges. Both the 2D and 3D CAD competitions had plenty of contestants; therefore, I am planning on continuing both of them next year. We had to share T302 with the Architecture competition because we did not have T102 to use and we had a large number of contestants. I believe we will need to reduce the number of entries next year since we cannot anticipate how many Architecture contestants there will be.

I explained that the CADD Club was continuing to be active. I expressed to the committee my appreciation to the students for all of their hard work. I also told them that we are in the process of participating in the Enable the Future program which assists young children who need a prosthetic. We would work with a child to 3D print them prosthetic hand. We are currently awaiting back ordered parts to complete a printed hand. I also shared that we will be hosting the scale modelers event in August.

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