

## Spring 2019 BPCCE Engineering Advisory Committee Minutes

**Date:** March 27, 2019  
10:00 am Bldg L Room 213

### Attendees:

Jeffery Anderson	Jennifer Lawrence	Jayda Spillers
Megan Bange	Ali Mustapha	Susie Stinson
Panharith Bel	Marvin Nelson	Lesa Taylor Dupree
Krystal Corbett	Robert Newberry	Heath Tims
Juan Flores	Sandra Partain	Paul Vu
Holly French Hart	Charles Reed	David Washington
Thomas Hornbuckle	Jeanne Smith	Corey Wilson
Stephanie Jackson	Giovanni F. Solitro	

### Welcome and Introductions

Megan Bange, Dean of Technology, Engineering and Mathematics, welcomed everyone and turned the meeting over to the program director, Dr. Schneider, to begin round table introductions.

### Adoption of last meeting minutes

#### VOTE

Jeff Anderson asked for a motion to approve the minutes from the last advisory board meeting held on March 23, 2018.

Ali Mustapha made a motion to approve the minutes from March 23, 2018.

The motion was seconded by Charles Reed.

Vote in favor of motion is unanimous.

### State of the Department

Dr. Schneider went over the enrollment and graduation numbers showing a consistent trend between 80 – 100 students in the program in the spring and fall semesters. Graduation rates are approximately 10% of the enrollment with most students going on to 4-year universities.

Last year, the TEM division began a study hall where engineering students can meet to work on projects, homework, and group study. In the spring, it was managed by a student worker, David Washington. This student worker is funded through the Federal Work Study. The goal for this study hall is to improve retention and collaboration among engineering students. Last semester, total student participation was 185 hours.

Stephanie Jackson reported the recent recruiting efforts she has attended in the past year and encouraged the board to contact her for other enrolling opportunities:

Caddo Career Technical College Fair  
Skills USA Recruiting Opportunity

Veterans' Job Fair  
Cavalier Preview Nights  
Lunch Recruiting at Airline, Benton, Parkway High Schools  
Webster Parish College Fair  
Bossier Parish College Fair  
Caddo Parish College Fair  
BPSTIL College & Career Fair  
Louisiana Workforce Commission  
2018 STEM Festival  
Digifest  
Barksdale Community Partner Appreciation  
Veterans' Employment Council

## **Student Analysis**

Most of the students in the Engineering program are non-traditional students. Dr. Schneider played a video of one of her students, German Abundiz, that was created by BPCCC's PR department. It can be viewed at: <https://www.youtube.com/watch?v=1fvqYxF8Hg>  
She also played a short video of other highlights of student activities showcasing some of the projects they have worked on this past year.

## **MATH, PHYS and ENGR Courses Learning Outcomes and Curriculum Update**

### **Calculus Series**

Charles Reed updated the board on changes to Physics I and II that were implemented last year. Offering Physics I in the first 8 weeks of the semester and Physics II in the second half has been more successful and would like to start a similar tutoring program currently used by the engineering students. He has noticed that students are coming to class more prepared mathematically and the overlapping engineering material is very helpful.

### **Engineering**

Dr. Schneider reported on the continued use of Webworks in the classroom and thanked the LA Tech Webwork team for their help. They were also able to implement Solidworks and Mathlab into the curriculum with the help of Carl Perkins funds.

BPCCC Engineering students will be competing in the Skills USA in April 3-5 in Lake Charles at SOWELA Technical Community College. The students that will be competing demonstrated their entries. The National Skills USA will be held in Louisville KY on June 24-28.

## **Articulation, Transfer Protocol/Requirement, Transfer Student Status, and Curriculum Change Recommendation by Partnered Four-Year Universities**

Dr. Heath Tims, LA Tech, reported on BPCCC MOU course mapping update. Currently, there are an average of 8 students transferring to LA Tech from BPCCC. Most of the programs map fairly well;

however, one of the challenges are the electrical engineering students and steps are taken to keep them informed because of the added courses required. The courses taken at BPCC the first year equate to a half year at LA Tech. The process has been to waive the content and have the student make it up using technical electives in the junior / senior year. Changes were made to the LA Tech curriculum in 2016, and each program dropped a social humanities / social science. The BPCC requirement of ENGL 200 level is no longer required at LA Tech and it should be replaced with a course with some engineering content. There is a requirement for a social science, but LA Tech would like to see something with an ECON / BADM 201 instead of other social science courses for students transferring to their program.

Dr. Schneider reported on the new course fee added to the Engineering classes for the “Living with the Lab”, which better prepares students to LA Tech because they can do more projects by boosting hands on learning.

### **VOTE**

BPCC Engineering Curriculum Change: After a discussion to replace ENGL 200 with a new ENGR 101 without making a change to the program hours or ENGL requirements.

Jeff Anderson asked for a motion to replace ENGL 200 with ENGR 101.

Ali Mustapha made a motion to approve the change in the curriculum.

Robert Newberry seconded the motion.

Vote in favor of motion is unanimous.

### **VOTE**

Jeff Anderson asked for a motion to accept the existing Learning Outcomes and hours.

Ali Mustapha made a motion to approve the hours and the existing Learning Outcome objectives.

Robert Newberry seconded the motion.

Vote in favor of motion is unanimous.

Dr. Schneider introduced the newest BPCC Foundation Scholarship Recipient David Washington.

BPCC Endowed Scholarship in Engineering: BPCC Foundation Jennifer Lawrence & Susie Stinson presented the award.

Jennifer Lawrence thanked the Advisory Board for scholarship endowment that is helping students with the cost of their education.

The Biomedical Research Foundation is coming to BPCC in March to do their mini pitch competition to their venture capitalist and encouraged the students who gave their presentations today to come back and participate in the competition. There will be prize money with an invitation to the winner for the Louisiana Start-up Prize where you could get your idea fully funded. This event is only open to BPCC students on May 14<sup>th</sup> 2019.

The foundation will be giving the first endowment in engineering scholarship this fall. David Washington will wear a medal when he graduates as a foundation scholar.

Dr. Schneider presented the scholarship criteria:

Student must be at the sophomore engineering level at BPCC;  
Student must have a 3.0 GPA from BPCC;  
Student must have successfully completed Math 250, PHYS 211, & ENGR 100;  
Student must demonstrate a special or unusual financial need as determined by the Committee; **or**  
Student possesses talents that are desirable and will lend credibility to the college *or* Engineering curriculum;  
Recipient must possess and maintain good academic standing (non-probationary) to be considered for and to retain award;  
Award may be received in conjunction with other forms of financial assistance.

#### **VOTE**

Jeff Anderson asked for a motion to approve the scholarship criteria.

Ali Mustapha made a motion to approve the criteria as discussed.

Robert Newberry seconded the motion.

Vote in favor of motion is unanimous.

Ali Mustapha presented a check from Louisiana Engineering Society Shreveport Chapter in the amount of \$1000.00 to the scholarship endowment.

Minutes submitted by: Jeanne Smith

Minutes approved by: Dr. June Schneider