

# Minutes of the Fall 2017

## Meeting of the SPC Biology/Biotechnology Advisory Board

Date: Monday November 13, 2017

Location: Clearwater campus NM 207

Meeting was called to order at 5:32 PM

Advisory Board Chair, Dr. Guy Bradley will lead the meeting today.

Goal of today's meeting is to discuss the viability of both the AS Biotech and Baccalaureate Biology program. Interim Dean Natavia Middleton was present to review changes in the Baccalaureate Biology program and to review biology survey results.

### **SPC staff Advisory Board ex officio members present:**

Linda Gingerich – Chair Baccalaureate Biology Program

Jill Harper-Judd – Chair Natural Sciences, Clearwater

Ray Mendard – Natural Science professor

Natavia Middleton – Interim Dean Natural Sciences

Michelle Osovitz - Baccalaureate Biology professor, call in

Kathy Siegler - Natural Science professor and instructor in charge of AS Biotechnology program

Shannon Ulrich – Natural Science professor

### **Advisory Board members present:**

Guy Bradley - PI TRBI - Biomedical Research, Advisory Board Chair

Adam Coovadia - EvolveGene

Steve Harper – Director, Natural and Historical Resources Mgmt., Pinellas County Dept. Parks and Recreation

Ann McNicol – Director Biotechnology Program, Countryside High School

Maisha Standifer – Bay Pines VA Healthcare System

Bob Ulrich – PURE Molecular

Allison Williams – ACOS Research Bay Pines VA Healthcare System

### **SPC staff Advisory Board ex officio members absent:**

Linae Boehme, Craig Huegel, Joseph Benavides

### **Advisory Board members absent:**

Paul Anderson, Theresa Badurek, Meghan Gentilini, Susan Gerhart, Soichi Haraguchi, Sunil Jambhekar, Fred Perez, Akiko Tanaka, Andrea Smith, Michael Shamblott

### **Introductions**

Members present introduced themselves.

### **Approval of the minutes of the previous meeting (April 3, 2017)**

The chair provided an overview of the minutes and made a motion to approve them. This motion was seconded by Bob Ulrich and the minutes were approved. Members were reminded that minutes are posted on the AS Biotech website.

### **Open Issues**

1. Changes to programs
  - a. Baccalaureate Biology –
    - i. Subplans
      1. Students will be able to focus on one of four subplans
        - a. goal of subplans are to direct students to workforce
      2. Health Science, Veterinary Medicine, Biotechnology, Organismal Biology

3. Core classes include Theory and Practice in Biological Sciences (BSC3017), Lab experience (rotations or research), shadowing or internships
  4. Subplans will offer targeted electives through independent study and special topics classes
    - a. no curriculum changes anticipated at this time
  - ii. Flexible prerequisites
    1. similar to four other state colleges that offer Baccalaureate Biology degrees
    2. alternative entry paths
      - a. 60 lower division credits
      - b. Biology 1 and 2 (BSC2010/L and BSC2011/L)
      - c. General Chemistry 1 and 2 (CHM2045/L and CHM2046/L)
      - d. Organic Chemistry 1 (CHM2210/L) or Physics 1 (PHY2048/L) coded for entry into program.
    3. Students entering program with CHM2210/L or PHY2048/L must complete sequence during first semester in program.
  - iii. SPC admissions notifies students that they are eligible to enroll in the program
    1. admissions will track those that enroll.
    2. admissions will make certain that the enrolled students complete the sequence of required organic chemistry or physics requirement.
  - iv. Number of class sections and enrollment
    1. College has based semester sections on past enrollment numbers; based upon these data core courses need additional sections, while electives are often under enrolled
2. Survey results
- a. Members were given copies of the survey results
  - b. Students provided with admissions checklist and extensive guidance through the program
  - c. 38 graduates in last academic year
  - d. most students have favorable experience
3. AS Biotechnology Laboratory Technology enrollment
- i. Current status
    1. Currently 65 students list this program as their major (Pulse)
    2. Fifteen student are currently taking Biotech required courses
    3. For the program to remain viable goals 2018 5 students graduated, 2019 15 students graduated, after 2019 20 students per year graduating from the program
      - a. 2018 – 3 students will graduate
      - b. not certain the goals will be met; main issues:
        - i. taking longer for students to complete prerequisites
        - ii. number of students are using the program to complete prerequisites for other programs to maintain financial aid
  - ii. Marketing strategies
    1. Welcome letter was mailed to all incoming students that identify AS BIOT as their program.
      - a. Open house held October 18– invitations sent to incoming students and the community to meet with faculty and tour facilities.
        - i. sixteen potential students attended
      - b. AS Biotech program flyer is posted in core courses such as CHM1025, MCB2010, BSC2010 to make students aware of the program and its goals.
4. Internal internships
- a. One of the suggested changes in Baccalaureate Biology program is to require an internship or research experience.
    - i. research will require presentation of results
  - b. Will need more internship opportunities
    - i. one suggestion – internal internships
    - ii. advisory board felt that this was not a viable option

## **New Business**

1. Dual enrollment
  - a. request that physics be available as a dual enrollment opportunity for Pinellas County high school students

Next meeting Spring semester of 2018.

Date to be determined.

Meeting adjourned at 6:56 PM