

## ***First in the World Campus Board Meeting 03/27/2019 – Minutes***

### **Meeting Information**

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**Date:** March 27, 2019

**Time:** 1:00pm – 2:30pm

**Location:** Engr 494

**Attendees:** Laura Sullivan-Green, Patricia Backer, Nicole Okamoto, Cassandra Paul, Nina Abramzon, Ron Yeung, Craig LaMunyon, Emily Allen, Edith Porter, Alison Baski, Joseph Rencis, Jane Dong, Nancy McQueen, Shandy Hauk, Tyler Stannard

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#### **1. Welcome and Introductions**

#### **2. General Grant Status Update**

##### **a. Budget Update**

- As of the end of February 2019 the FITW grant has an available balance of \$548,291.13.
- In addition, the current encumbrance is \$471,918.98.
- Our estimated expenses for the rest of year 4 is \$270,792.72.
- Leaving an estimated \$277,498.41 for the possible Year 5 extension.

##### **b. Year 5 No-Cost Extension**

- For further assessment and outreach, we have a good chance for a year 5 extension.

##### **i. Requirements**

- The requirements for the extension are straightforward and will submit for extension in June 2019.

##### **ii. Year 5 Plans**

- Continue to assess the effects of Flipped classroom in student performance, STEM course retention, and consecutive course performance.
- Further faculty support through workshops and mini-grants.
- Additionally, more dissemination through presentations and online resource of flipped materials and content for interested faculty.

#### **3. Campus Status Reports**

- SJSU –
  - Continue the successful flipping of all core classes.
  - Steven Vukazich is currently flipping Statics.
  - Kurt McMullin is a newly added faculty through the mini-grants that is flipping Statics as well and is collaborating with Steven.
  - Marion Campisi is currently flipping Discrete Math.
  - Tenure and tenure-tracked faculty participating in the mini-grants.
- CPP –

- 6 of the CPP engineering mini-grant participants are women.
- Flipping at CPP is going well.
- CPP started flipping Calculus in Fall 2019 to be apart of the ongoing Calc-Study across the three campuses.
- This delay in the CPP Calc-Study was due to the recent transition of quarters to semesters.
- A subsequent Calculus III course is being flipped by a mini-grant faculty.
- The Physics flipping core faculty member has changed to Nawpar from Sadaghiani.
- Jawaharlal has been coordinating sections with Joe.
- Jawaharlal has been producing successful youtube videos during his flip.
- **CSULA –**
  - Calculus flipping is going well with the help of Silvia assisting the faculty.
  - One of the flipping Physics faculty fell ill and dropped out. A lecturer stepped up to take the position.
  - Core engineering faculty has begun their flip.
  - Flipping faculty are noticing their students are getting used to learning using the active learning flipped model.
  - Several faculty supported through mini-grants across disciplines.
- **a. FLCs**
- FLCs doing a workshop at the upcoming ASEE PSW conference held at CSULA.
- Silvia as FLC has been coordinating regular meetings that bring all the flipping faculty together to discuss ideas and share experiences.
- **b. Mini-Grants**
- As we move to through the final year, we have extra funds to continue supporting faculty through mini-grants.
- This round we compensated the mini-grants 0.2 overload over the course of the Spring semester.
- They are funded to develop and flip during the Spring 2019 semester.
- We officially accepted 22 mini-grant applicants:
  - 10 from SJSU
  - 8 from CPP
  - 4 from CSULA
- This upcoming Summer 2019 we are planning to host another round of summer mini-grants for faculty across the three campuses.
- **4. Calculus Study Update (Shandy Hawk)**
- The Calc-Study is based on the flipping model of Calculus
  - Before the flipped class – Exposure to content and limited practice.
  - During the flipped class – Working with the content, clarification, and some new info.

- After the flipped class – Reflection, and complex practice.
- Research questions for this Calc-Study are:
  - RQ1: Does being in a class using the flipped model improve student outcomes in calculus relative to other instructional models?
  - RQ2: What implementation factors moderate the effectiveness of a flip?
- Gathering the data over the three semesters is shown via timeline presented by WestEd.
- Random Assignment is the method to set up the course sections with the Calculus instructors.
- Calc Faculty are their own control and flipped model to be compared in the study.
- We have a total of 14 instructors and 39 sections of Calculus involved with the Calc-Study.
- 19 sections flipped and 20 sections act as a control.
- Two-thirds of the data collection is complete and is continuing to be collected over the course of the Spring 2019 semester.
- Preliminary data was presented at the board meeting.
- Preliminary data shows that the data of flipped vs non-flipped in student performance is relatively the same, however this is a good sign as normal when there is implementation shift in pedagogy there is usually a dip in student performance.
- The data that has been collected shows that students that come into calculus less ready are benefiting more from flipped than students that enter more ready.
- WestEd will keep investigating this trend in the data.
- Preliminary Observation data from inside the classroom was shared.
- Next Steps in the Research Study:
  - Complete Student and Instructor data collection
  - Generate implementation indices
  - Analysis of student surveys
  - Data linking and cleaning
  - Hierarchical linear modeling (HLM) using pre- and post- tests, grades, implementation indices, and demographics.
  - Subsequent modeling that includes persistence variables
  - Dissemination

## **5. Dissemination and Outreach**

### **a. Flipped Workshops**

- The “Do the Flip” workshops are scheduled to be held in April for the SoCal campuses and at the end of May at SJSU.
- CPP is doing a new model of the workshop, a half-day workshop with follow-up.
- If the CPP hybrid model is successful, we may look into this for future workshops.

### **b. SJSU Student Success Symposium**

- The Symposium is scheduled for a single day on April 15<sup>th</sup>.

- The FITW grant will be hosting a specialized workshop towards the end of the Symposium.
- Dr. Scott Freeman, a leader in flipped pedagogy, will be one of our Keynote Speakers at the Symposium.
- Dr. Laura Rendon, a nationally recognized education theorist, will be the other Keynote Speaker.

#### **c. Presentations**

- During the Final year we are planning to make record of all presentations and workshops at conferences and symposiums.
- Preparing website to become a source of flipping knowledge, an online hub for interested faculty to get involved and learn more about flipping their pedagogy.

### **6. Final Year Assessment**

#### **a. Grade Data**

- The grant will work with each Institutional Research Center to pull grade data from students in the flipped and compared to non-flipped.

#### **b. Longevity Data**

- Longevity study and subsequent course sequence data of the core classes will be pulled and assessed in the final year.
- The grant will assess the performance of students who experience flipped and see if it improves their performance in subsequent courses onward.
- If we are granted a Year 5 extension, we will continue to assess this study.

### **7. Adjournment**