

Development of Undergraduate Major Committee (DUMC)

25 October 2017

I Subcommittee Reports

- A. Post-mortem of BSPM major (*Janet, Frank*) (Written report provided via email)
 1. Main issues with previous major:
 - i. The differences and advantages between this major and others such as biology were not clear to potential students.
 - ii. The major lacked name recognition.
 - iii. The major had a history of under performance and low enrollments, prior to its transfer to the department.
 - iv. Faculty did not feel connected to the major.
 - v. Sufficient faculty effort was not available for recruiting, retention and teaching. It was suggested that 3-4 faculty who were passionate about the major and its students would have been necessary to be successful.
 - vi. Course requirements were developed from available classes. New classes tailored to the needs of the major were not developed.
 2. Discussion of possible new courses
 - i. Magic mushrooms class?
- B. Assessing Student Needs
 1. State Demography
 - i. Employment trends
 1. Education is a growth area for the state
 - ii. Population trends
 1. Biggest increases in Denver to Ft. Collins corridor
 - i. Colorado Paradox- Greater proportion of migrants have bachelors and graduate degrees.
 2. Focus groups with high school, undergraduate and graduate students (*Cini, Todd, Andrew*)
 - i. Do focus group in spring during FFA events on campus during spring
 - ii. On campus students and off-campus (high school)
 - iii. Growing interest in agriculture among suburban and urban children
 - iv. Three or four focus groups before the end of this semester
 1. Ag ambassadors (students who already know about CAS and agriculture)
 - a. What majors are they?
 - b. What are their perspectives on pests? What do they think about this subject?
 - c. These students have already decided to be in agriculture, and this population is shrinking, so is interviewing them worthwhile?
 2. Biology
 3. Natural Resources
 4. FFA Chapter in Longmont
 - v. Natural sciences learning community may be a good group to interview
 1. Join learning communities as freshmen; Co-housed in dorm
 - vi. It would be very telling to interview students who **left** CSU.

vii. This topic was tabled until the next meeting.

C. Assessment of business, industry, management needs (Kirk, Cris, Franck)

1. Cris interviewed a person responsible for recruiting at Monsanto, and here are the things they are looking for in new hires out of college in our field, by order of importance:
 - i. ability to work collaboratively with others
 - ii. creativity, demonstrated leadership in initiating projects and having ideas
 - iii. broad training, as in ability to work across disciplines, not knowledge of too many areas necessarily
 - iv. communication skills: comfortable with preparing and giving presentations, preparing reports
 - v. quantitative skills: statistics, excel files
 - vi. He mentioned that they usually provide specific training for the position being filled, so general knowledge rather than specific knowledge and improved communication are the key elements.
2. Kirk shared a poster (which will become a manuscript with more data) and an article about employer needs in plant pathology
3. Need to incorporate learning the skills employers want into classes, curriculum-wide.
4. Include information about employer needs and how this major will provide students with the needed skills and knowledge in recruiting material.

III. Committee meeting schedule

- A. Next meeting will be **Wednesday, November 1 at 10 am** (location TBD)
 - a. We will work on developing the **focus groups**. **Dr. Karen Falkenberg** from TILT will join us. She is going to help us develop and execute the focus groups. She is a trained facilitator and helped the English Department with their focus groups.
 - b. DUMC will meet weekly on **Wednesdays at 10 am** in a **location to be determined** for the remainder of the semester. We will not meet in November 8 (due to the Ecological Society of America meetings), and we will not meet if needed for other reasons.