Minutes

Date: Friday, October 9th 2015
Time: 10:00 a.m. to 2:00pm
Location: EFSC
Bldg/Rm: Building 10, Room 206

Meeting began at 10:00 a.m.

Attendees: Brian Smith, Daytona State College; DeAnn Bohm, Eastern Florida State College; Tony Malaret, Seminole State College; Tommy Minton, Seminole State College; Christina Thompson, Seminole State College; Deborah Bradford, UCF Regional Campuses; Joseph Brennan, University of Central Florida; Teresa Dorman, University of Central Florida; Lori Dunlop-Pyle, University of Central Florida; Nizam Uddin, University of Central Florida; Lisa Cohen, Valencia College; Paul Flores, Valencia College; Jim McCloskey, Valencia College; Melissa Pedone, Valencia College; Amanda Russell, Valencia College; Sidra Van De Car, Valencia College.

Teresa Dorman welcomed everyone for coming and asked each person to introduce himself or herself.

The minutes were reviewed from the February 20th 2015 meeting, and no changes were made.

- Still need updated syllabi
- Need to track down updated learning outcomes
- Need to follow-up with Tammy Muhs regarding the IR requests to different colleges (after meeting, obtained information from TM re: SSC and EFSC data request/analysis – this is attached to minutes: “Success Data from State Colleges”). Need to follow-up with those institutions that have not yet been able to replicate data.

Meeting Discussion

- Teresa Dorman opened discussion by asking the group to state what they consider curriculum alignment to mean for their discipline. It was agreed that every student should have the same experience in the prospective math course no matter where it is taken. Teresa asked each institution representative to give a brief summary of how internally aligned their departments and locations were.
  - Daytona State stated they were 100% internally aligned. Course prerequisites are set, faculty follows same policies, final exam, book, and learning outcomes
  - Seminole State is similar to DSC, give common exams, department is starting to become internally aligned. Faculty are given a syllabus template and they use the same textbook.
  - UCF uses the same book for all courses, common material on final, some faculty do not use a book.
  - EFSC uses the same book/topics, they are aligned college wide. There was a change in the calculus book. Some slight variations in regards to adjuncts which causes a problem.
• College of Central Florida uses common syllabus and common exam
• Valencia College has five campuses. They do not use the same book. Some faculty would agree they are aligned across campuses. Calculus has become fully aligned when everyone started using the same textbook. Topics are tight. There was a recent meeting about student dependency on calculators. It would be beneficial to align textbooks and technology across the college campuses.

• Teresa Dorman stated that it seemed that most institutions were internally aligned. She suggested they take the action items the group will discuss in this meeting to the appropriate people at their locations and make the efforts of the cross-institutional curriculum alignment a reality. The group is in the implementation steps right now.
  - How do we know we are aligned? Discussion of shared exam questions between UCF and VC.
  - Action: Tammy Muhs has data re: this, follow-up with her to obtain results.

• Reviewed past action items. Several institutions will follow up with their action item that was submitted during the last meeting.
  - Survey of calculator use was developed and distributed. See survey and results attached to minutes.
  - Updated prerequisites worksheet attached to minutes.
  - Action item: Need to find and distribute document regarding “topics” in calculus courses

• Reviewing the course sequence data, group discussed what percentage of transfer students take more math courses at UCF and what is the first math course they take.
  - There are limitations to the data. Most agreed that more students take them at UCF over the state colleges and proposed more advising for the students.
  - When first math is taken depends very heavily on the major, yet FSC do not declare major.
  - Are students needing more math skills in UCF courses than what they are learning at the state colleges?

• Discussions regarding what the “transition” points are for student taking mathematics – when a part of CPPs or major prerequisite requirements, what contributes to a student completing math at FSC vs UCF?
  - Particular issue with course sequences: There are challenges associated with advising a student to take all courses before transferring because hours for AA are completed but not all math
  - Recommendation: Students should take Calculus I and II at the same institution and in sequence.
  - Advisors are the most important to encourage a student to finish the sequence where they start it.

• Discussion on credit hour alignment.
  - Reviewed prerequisites worksheet (attached to minutes)
Minutes

- Important question regarding calculators was posed. Multiple choice exams given with no work shown. There needs to be a push to know how to use technology. A certain percentage of assessments should be no calculator. Recommendation is needed to determine which topics should not be assessed with a calculator.
  - Developed survey for calculator use; however, survey was already developed and distributed in spring 2015 (results attached to minutes)
  - Action item: After review of calculator use, provide a calculator recommendation for whether to use it in Calculus I.

- Action item: Each institution should submit one current syllabi for courses being discussed (MAT1033 through MAC2313 and STA2023) and share learning outcomes (if not already included on syllabus).

- Action item: Topics breakdown for 2023 and go over state standards
  - Initial topics list for STA2023 provided by VC was added to the topics & learning outcomes document and is attached to minutes.

- Discussion on adaptive learning. UCF is considering adopting adaptive learning software to supplement instruction in several courses. Will provide more updates as decisions are made. Adaptive learning software evaluates each individual and creates a learning profile for their skill set providing an interactive learning environment.

Math faculty are invited to participate in other Curriculum Alignment meetings:

- The Physics group is meeting on March 4th 2016 and will need math faculty to contribute to discussion points with a focus on calculus and trigonometry. We will include math faculty on the meeting announcement.
- The Engineering group is meeting on February 12th 2016 and will need math faculty to contribute to discussion points with a focus on calculus.
- The Biology group is meeting on February 19th 2016 and the Chemistry group is meeting on February 26th 2016 and would like math faculty to attend to contribute to discussion points with a focus on algebra. We will include math faculty on the meeting announcement.
- More information to follow.

The next Math meeting was tentatively scheduled for March 18th 2016 with Valencia West College possibly hosting. Agenda items for this meeting will include:

- After review of calculator use survey, provide recommendation for calculator use in MAC1105, MAC1114, MAC2311, and MAC2312
- Determine course learning outcomes
  - Is more information needed to decide these by course?
- Review topics for STA2023
- Review course hours and offer recommendation for misaligned courses
- Review data from shared exam question assessment (VC and UCF)
- Discuss use of technology (calculators) in STA2023
- Include Differential Equations in discussion (determine if topics/syllabi/etc. need to be documented and aligned)