I. Welcome and Introductions

II. Review Past Meeting Minutes

III. UCF’s Pathways Program

IV. Review Course Hours – Recommendation for Alignment

V. Learning Objectives/Topics: STA 2023

VI. Lunch Break – 12:00pm (will be provided)

VII. Calculator Recommendation (MAC1105, MAC1114, MAC2312, STA2023)

VIII. Include Differential Equations (MAP2302) in Alignment Discussion

IX. Review of Curriculum Alignment (KMS) Website

X. Set Fall Meeting Date and Identify Host

XI. Adjourn
Minutes

Date: Friday, March 8th 2016
Time: 10:00 a.m. to 2:00pm
Location: Valencia West Campus
Bldg/Rm: Building 8, Executive Dining Room

Meeting began at 10:00 a.m.

Attendees: Boris Nguyen, Valencia College; Sidra Van De Car, Valencia College; Amy Comerford, Valencia College; Rafael Davila, Valencia College; Nathan Baker, Valencia College; Jim McCloskey, Valencia College; Teresa Dorman, University of Central Florida; Nizam Uddin, University of Central Florida; Joseph Brennan, University of Central Florida; Maalen Lahcen, University of Central Florida; Alina Stefanov, University of Central Florida; Tammy Muhs, University of Central Florida; Jennifer Sumner, University of Central Florida; Allison Bryant, University of Central Florida; Christina Thompson, Seminole State College; Karen Lantot, Lake Sumter State College; Daniel Triolo, Lake Sumter State College; Richard Tamburro, Daytona State College; Kirby Brown, College of Central Florida

Teresa Dorman thanked everyone for coming and asked each person to introduce themselves.

Review Past Meeting Minutes
The minutes were reviewed from the October 9th 2015 meeting, and no changes were made.

- Teresa Dorman asked if the group had Calculus II and III learning outcomes to review. The group majority agreed there had been a discussion on those learning outcomes but nothing had been formally created. The math topics and learning outcomes spreadsheet was then reviewed.

  ACTION: If any member has a file that contains the learning outcomes, please forward that to Teresa.

- Seminole State College and Eastern Florida State College submitted additional data for student success that (ACTION) will be added to the Curriculum Alignment website.

UCF Pathways Program
- Jennifer Sumner gave a presentation on the DirectConnect to UCF Pathways initiative. The DirectConnect Pathway is an intentional, defined, and planned design, which utilizes the frameworks in student development competencies, academic and career planning, and academic and social integration.
Minutes

Review Course Hours – Recommendation for Alignment

- Teresa initiated group discussion on pre requisites and topics for each course listed in the course data spreadsheets. Review of state profile description lists and what state requirements are in regards to pre requisites. Edits were made to the STA2013 section per group approval. (ACTION: Updated PR worksheet attached to the minutes)
  - Richard Tamburro stated that there is a difference in the amount of time some instructors spend on certain topics versus others. This could have an impact on student success. He suggested ways to provide more flexibility or time restraints on instruction to avoid this. Discussion on whether it hurts the students when certain topics are covered for a longer period of class time than others.
  - (ACTION) Jim McCloskey suggested putting a disclaimer or general statement at the bottom of the course outcome data that states that these topics do not reflect how long an instructor should spend on each topic or the depth of coverage of each topic. The topics are simply a reflection of things that should be covered during the length of the course.

Learning Objectives/Topics: STA2023

- Discussion on coverage of topics based on majors of students taking certain courses. Rafael Davila talked about majors that would need STA2013. Teresa stated she could find other majors that may require information covered in STA2013 by looking at course catalogs.
- Discussion on MAC1105 should be a prerequisite for STA2013. The group went over differences in pre requisites. Agreed students needed to be able to demonstrate some level of maturity in math, but prerequisites differences do not matter.
- MAC1105 is not necessary as a PR to STA2013

Other Discussions

- Discussion on credit hour difference in certain courses between institutions. Discussed lab requirements and lab content for certain courses.

- Dr. Falecia Williams, President of Valencia West, visited the group and thanked them for their participation and dedication to not only their own individual courses but all courses students are taking. She emphasized the importance of the math discipline and recognized their job and dedication to student success.

Calculator Recommendation

- Group discussion on calculator usage. Teresa pulled up general survey of math courses from 10/9/15 (available on website). She posed the question of how Calculus should be used in college algebra.
- Discussion on how instructors can teach students not to rely too heavily on calculators. Public schools train students on the Inspire calculator, however they are often not allowed
Kirby Brown stated that students are allowed to use graphing calculators.

Karen Lancelot said some students do not know how to hand graph. Scientific calculators are acceptable except the programmable calculators.

Boris Nguyen said he tells his students they cannot use calculators on tests. They have to show their work. Calculators are also good for classroom demonstration.

John McCloskey stated that he tests half with a calculator and half without.

- Teresa asked the group what their final recommendation may be for calculator use.
  - They stated that scientific calculators in the classroom were acceptable with limited use on demonstrations and portions of tests. Some gave an argument for graphing calculators stating students will need to know how to use them for future engineering and physics courses.
  - Recommendation: Use scientific calculators in class, but with some portion of the course demonstrating the ability to put “pencil to paper.” Know the technology being used in your course.

*Follow-up note: At the CA Engineering Meeting, the engineering faculty (UCF and FCS) stated that they do not have any preference/policy regarding calculator use. Any issues with calculator use are exclusive to the mathematics discipline.*

**Differential Equations**
- Teresa asked the group to provide differential equations templates that can be posted to the website.
  - **ACTION:** Boris, Joe, Hiram will provide a baseline of Learning Outcomes for Diff EQ.

**Website Updates/Other Discussions**
- She reviewed changes to the CA website and told the group about the upcoming April 1st Engineering meeting in the event that anyone would like to attend. Boris Nguyen stated he would like to attend.

The fall Math meeting was tentatively scheduled for October 14th 2016 with Seminole State offering to host on their Oviedo campus.