

## Project: AB1705/AB928 Math Success and Student Retention Project

### **Institutional Research**

- 1) Add pre-AB705 semesters to the NGR analysis Rajinder did of success rates in Calculus prerequisite classes post AB705 for MEA group to discuss and give additional feedback to the other components of the plan.
- 2) Additional research that would be helpful: tracking post AB705 students from Rajinder's research to see levels of reenrollment a) the following semester, and if continuous enrollment, b) reenrolling in math within 2 years of non-success (we generally know this, so this isn't essential to start the project but would eventually be helpful to see how successful or unsuccessful).
- 3) Create "exit interviews" for those students who do drop/ fail to determine possible supports and/or to better place them in a more appropriate medium, environment, etc. for their math learning.
- 4) Track Fall Freshman cohort to see when and what math is taken, levels of success, and levels of reenrollment if unsuccessful.

### **Math Plan**

- 1) Collaboration between the math department, all majors/degrees, and counselors in their pathway across the campus to create a recommended "math plan" for each program. What transfer level math course is appropriate for each major/ degree? And when is it appropriate for that student to take it? This will mean taking another look at our program maps and modifying others.
- 2) Creating a math plan for appropriate math courses (and when it should be taken) for "explorers" and/or our undecided students.
- 3) Adding math plans to our career exploration pages.
- 4) Having a visual tool for counseling staff that identifies the math plans of the different majors and timing of math enrollment and have this tool available for student use linked to the math placement page and class schedule.
- 5) Boiler plate language of our math plan for outreach professionals and non-math faculty.
- 6) The Program Map process is institutionalized in the Curriculum Committee charge and program proposal workflow in CNET to assure recommended math pathways are updated consistently.

### **Guided Self Placement**

- 1) Work with IT, Mathematics department, and Counseling to update the Guided Self-Placement language for Mathematics and create codes for allowing students into courses based upon recommended or required program and transfer requirement goals, and incorporate AB 928 requirements at the same time.
- 2) Having math plans and program options recommended in the results of the guided self-placement for math for the major(s) the student has chosen.

## **1<sup>st</sup> Year Program**

- 1) Create a first-year attachment program than ensures a math faculty member is part of each team – this is in lock step with Guided Pathways success teams – students in STEM majors who must take math early need more immediate outreach to keep them encouraged.
- 2) Create a video to be sent out at the beginning of every semester to every enrolled student in math advertising the support classes, tutoring, the reality of AB1705, what they can do if they start to struggle, who they can call if they want to drop and start again, and how we believe they can eventually be successful, even if it does not happen the first time around.
- 3) Create videos to be sent out at critical junctures reminding students of these options – census, midterms, w date, etc.
- 4) Discussion about rescinding the maximum course attempt penalty, which means absorbing cost of repeatability past 3 attempts.
- 5) Work with District regarding CRM Recruit and Advice to push our messages to students who are identified as needed intervention and identify who is responsible for making contact with these students.

## **Major Flexibility**

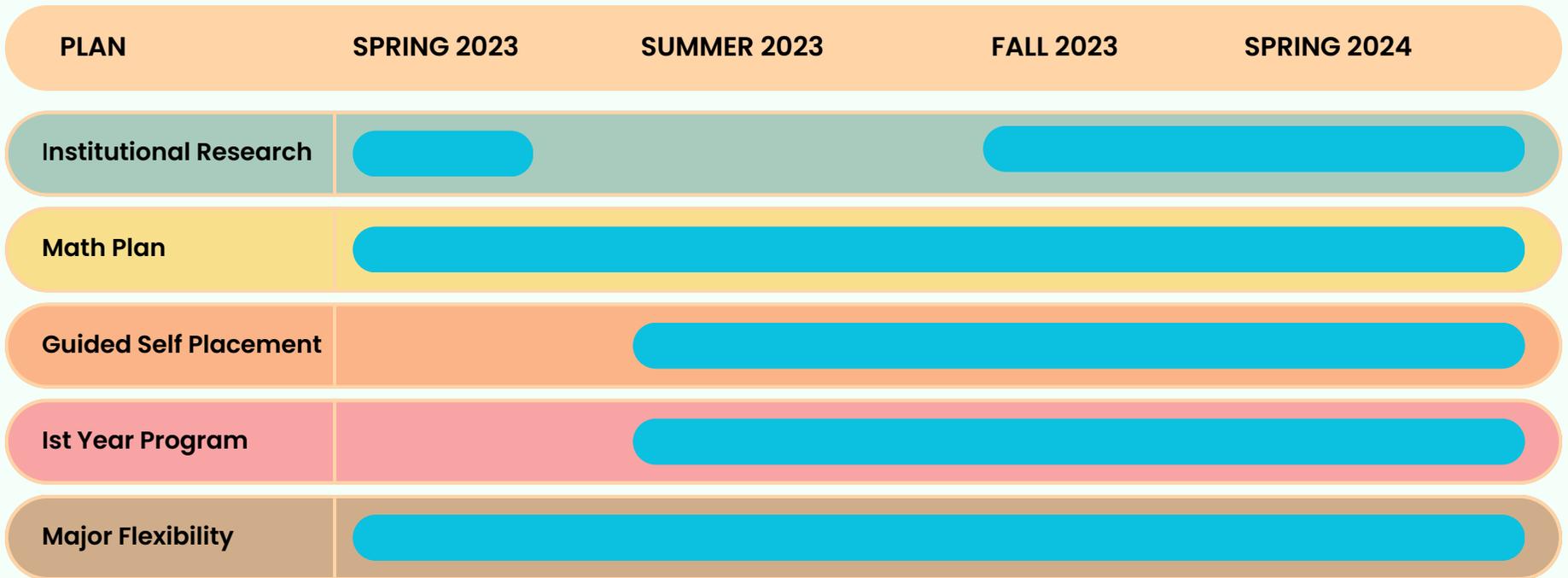
- 1) Allowing for multiple majors to be chosen at onset of admission and/or easily added later and possibly during guided-self placement.
- 2) A more user-friendly major change process.

Project management:

This project requires collaboration with IT, Guided Pathways, the Academic Senate, Counseling, Admissions, the Math Department, Academic Deans, and all degree holding disciplines that are AB1705 applicable. We need a project manager to set a timeline for these goals beginning ASAP.

Metrics of Success: Increased math re-enrollment and student retention.

# AB1705/AB928 MATH SUCCESS AND STUDENT RETENTION PROJECT TIMELINE



# Project Lead

