## California Acceleration

## Project

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## Why is this brought to the Senate?

$>$ Want support and buy-in from the senate and the campus
$>$ Don't want to blindside the faculty by these changes
$>$ Want input

## Three High-Leverage Strategies

$>$ Changing Placement Policies
$>$ Implementing Co-requisite Models
$>$ Redesigning Remedial Courses

# Changing Placement Policies 

> Colleges broaden access to transfer-level courses
> Make access more equitable, by adjusting cut scores
$>$ Using robust multiple measures
$>$ Requiring algebra-based testing and remediation only for access to courses that require substantial algebra (College Algebra, Calculus, etc.)

## Robust Multiple Measures Placement

$>$ High School GPA - the strongest indicator of how students will perform in college is how they performed in all their classes during four years of prior schooling
> "Disjunctive" placement - students qualify for collegelevel courses based on high school measures OR test score, whichever is higher
$>$ Self-reported information - high school GPA and coursework provided in response to questions during assessment process so that all students have access to multiple measures placement

## Why Implement This?

$>$ Two to fives times the transfer-level course completion
> Comparable or higher success rates
$>$ Works across demographic groups \& placement levels
> Tremendous equity implications

## Potential Impact on Equity (Math Transfer Level)



## Purpose of Multiple Measures

> provide a more complete picture of student ability
provide a way to increase the accuracy of placement, particularly reducing underplacement

## http://bit.ly/CCRCPlacementAccuracy

> 55520 from Title 5 requires Multiple Measures, not just a test score, for placement

## Variables Explored in MMAP Models

> High School Cumulative GPA
$>$ Grades in high school courses
> CST scores
> Advanced Placement course taking
> Taking higher level courses (math)
> Delay between HS and CCC (math)

## Summary: HS Variables that Predict College Success in Mathematics

## $>$ HS Cumulative GPA

- Enrollment and grades in Geometry, Algebra II, Trigonometry, Pre-calculus, Statistics, Calculus
> Taking a more challenging CST
> Score on math CST
$>$ More variables were examined but not found to be predictive once more powerful variables included.


## Proposed Plan:

>Math Department meetings scheduled for September 23, and an all-day meeting September 30 to discuss details.
>Implement MMAP as soon as possible using the suggested placement rules, as defined by the RP group (vetted by Math Department).
>Ideal: start a pilot group for Spring 2017
>Ideal: full implementation for Fall 2017

## Reasons for Change

$>$ Potential for dramatic increases in rates and times to completion of:

- Transfer-level Courses in Discipline
- Subsequent Courses in Discipline
- Other early education milestones
$>$ For all students


## Redesigning Remedial Courses

> Multi-level sequences in math are replaced with accelerated courses that are well-aligned with the transfer-level requirements in students' chosen pathway.

# Proposed Plan New Course: PreStatistics 

$>$ No Prerequisite
>6 Units
$>1$ semester gets the student ready for Math 110 (a transfer-level course)
$>2$ semesters to complete transfer-level math course

## Implementing Co-requisite Models

$>$ Students classified as "below transfer level" are allowed to enroll in a transfer-level course with extra concurrent support saving them at least a semester of stand-alone remediation and reducing their chances of dropping out.

## Proposed Plan: <br> Develop New Co-requisite Courses

> Details TBD
> Ideal: courses will be ready by Fall 2017
> Lots of Math Department meetings!
$>$ Lots of work to be done

## Only co-requisite models of remediation are offered at Tennessee public colleges and universities

Fall 2015 Statewide Data: Tennessee Board of Regents (TBR)


## What about low-scoring students?

Results of TBR Co-requisite Mathematics
Full Implementation


## RP Group Evaluation of CAP:

 Benefit to All StudentsSignificant completion gains among all student subgroups studied, including:
-all ethnic groups
-low-income students
-students who had taken ESL courses
-students who had not graduated from high school
-students with low GPAs
-students with disabilities

## CAP Math Pathways: What about the lowest students?

Completion of Transfer-Level Math (within 1.5-2 years)
Students at 3-4 Levels Below Transfer in Math
(Descriptive data, no statistical controls)


## bit.ly/MMAPTech

 bit.ly/CCRCPlacementAcuracy bit.ly/MMAPPilots bit.ly/MMAPCCCAA bit.ly/CAPEval
## Questions?

