

AB 705 Support: Embedded Tutors in Math 10

May 31, 2019

Instructional Support Services Retreat



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Context

- As of Fall 2018, all students can directly enroll in Math 10 (statistics) regardless of past math achievement
- Embedded tutors placed in classrooms to help students succeed

Embedded Tutor Models

- Peer tutors (students): attended all class meetings; held workshops outside of class
- Supplemental instructors (non-credit faculty): attended class once per week; available for tutoring in STEM Center

Questions

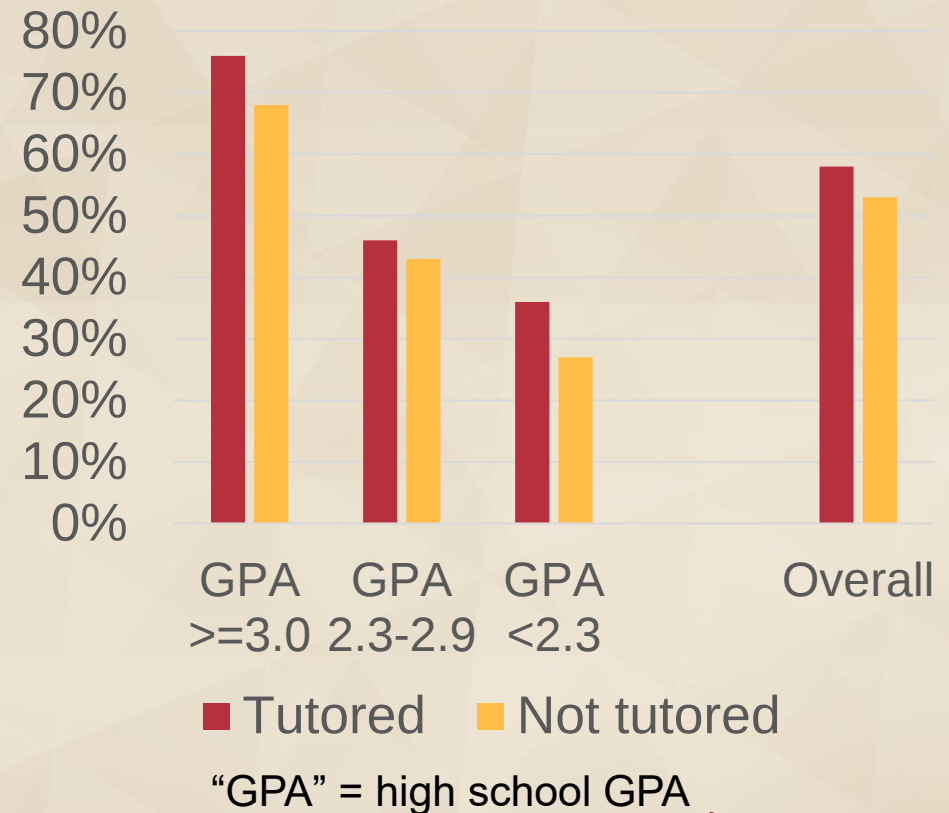
- Did embedded tutors improve student success in Math 10?
- Did the type of embedded tutor model make a difference to student success or student experience?

Did embedded tutors improve student success in Math 10?

- Data source: Banner
 - Sections without embedded tutors from Fall 2017, Winter 2018, Spring 2018, Winter 2019
 - Sections with embedded tutors from Fall 2018, Winter 2019
- Students matched on High School GPA and ethnicity (White or Asian vs. not White or Asian)

Did embedded tutors improve student success in Math 10?

- Higher pass rates in tutored sections
- Difference not statistically significant (but waiting for Spring '19 data)



Peer Tutor Sections: Workshop Attendance and Student Success

- Data sources:
 - Banner
 - Workshop sign-in sheets
- Fall 2018
- Caveat: workshop data only available for 4 sections

Final Course Grade: Peer Tutor Sections and Workshop Attendance

Attended

Did Not Attend

79%

PASS RATE

59%

- **26%** of students in these sections attended workshops. No difference in attendance rate based on high school GPA.
 - Average if attended: **4** workshops
 - Average if attended and passed: **4** workshops
 - Average if attended and did not pass: **3** workshops

Supplemental Instructor Sections: STEM Center Tutoring and Student Success

- Data sources:
 - Banner
 - SARS (based on student sign-ins)
- Fall 2018
- Caveats:
 - Tutoring in the Foundations Lab not captured by student sign-ins
 - Do not know who tutored the student

Final Course Grade: SI Sections and STEM Center tutoring

Tutored

94%

PASS RATE

Not tutored

60%

- **5%** of students in these sections attended STEM Center tutoring (sign-ins). Most had no HS GPA. No students in the lowest HS GPA band (<2.3) signed in for tutoring.
 - Average if attended: **3** tutoring sessions
 - Average if attended and passed: **3** sessions
 - Attended and did not pass (one student): **1** session

Final Course Grade: Peer Model vs. SI Model

Peer Model

63%

PASS RATE

SI Model

62%

- No difference in distribution of grades
- Achievement gaps similar under both models

Peer Model vs. SI Model: Student Experience

- Data sources:
 - Student survey
 - 129 responses received (20% response rate)
- Fall 2018

Peer Model vs. SI Model: Student Experience

Peer Model

72%

Tutor “very” or
“moderately” helpful

80%

Enough in-class
support

45%

Worked with tutor in
class at least once per
week

SI Model

75%

78%

23%

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