

# EMCC Embedded Tutoring

Promoting Equitable Student Success



# Meet Your EMCC Presenters



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ET Math Lead



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ET Biology Lead



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Title V Program



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Math and Physics



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Academic Success Center  
Science



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Program Coordinator  
Title V Program

# EMCC Embedded Tutoring: Promoting Equitable Student Success

## Learning Targets:

Participants will:

- Be provided an overview of the EMCC Embedded Tutor Program
- Be informed about the collaborative efforts of the Math Division, Life Science Division, Academic Success Center, Title V and OPIE (*Office of Planning and Institutional Effectiveness*)
- Be presented with instructor and tutor best practices
- Share instructional best practices that increase student success
- Interact synchronously using technology
- Be introduced to OPIE dashboards that display success outcomes filtered for equity
- Learn how ET provides instructors with additional insight into student needs in the classroom



# JAMBOARD



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PODCAST EPISODE

## Episode 2.3 - Jeff Duncan-Andrade - Centering wellness

Rooted in Relationships

Jun 15 · 55 min 12 sec



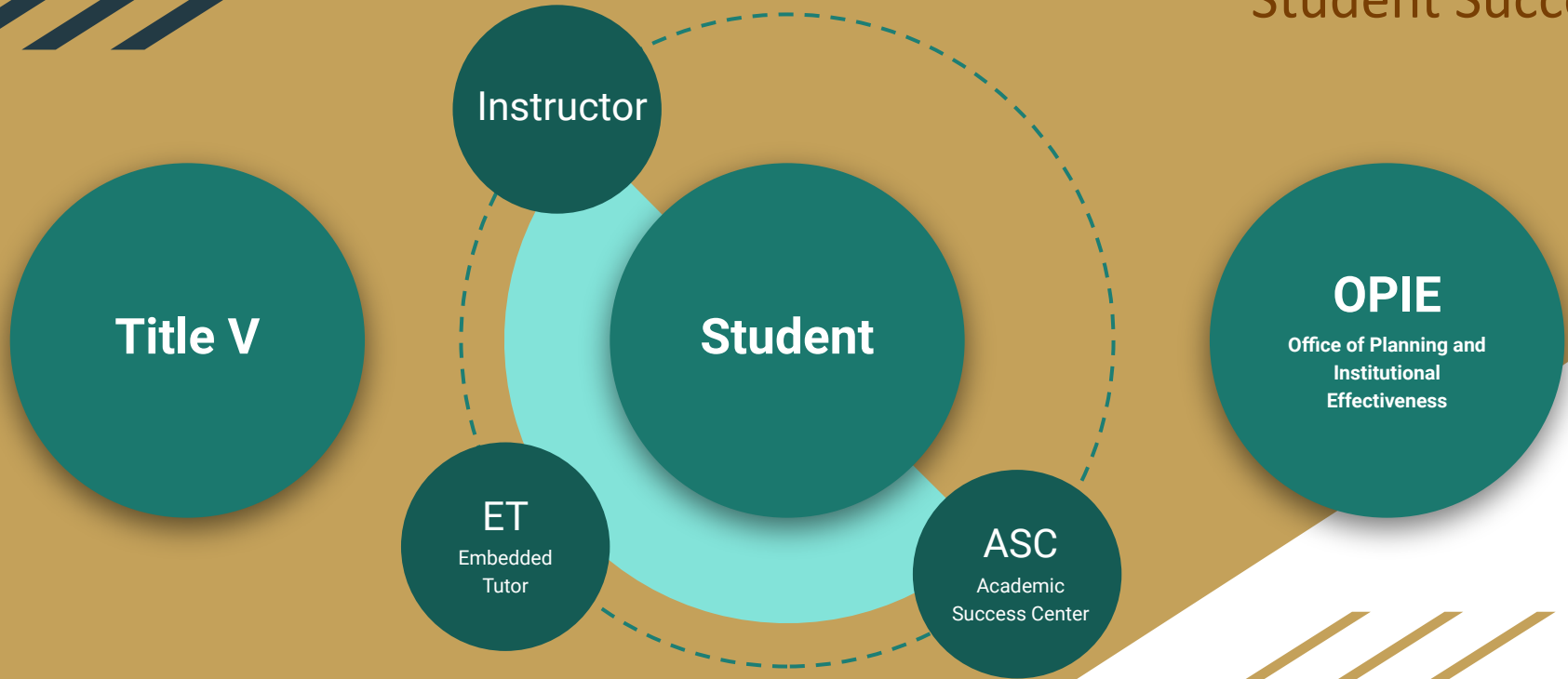
<https://open.spotify.com/episode/5krANLGUB0PumKtKbg68F2?si=602804510b2b416d&nd=1>

Those are the places where wellness shows up. And so those are the places where we really should be driving the relationship conversation, driving the rigor conversation, right? And that should be the central purpose of schools. So the the the place that we're trying to push the field is that this is an opportunity for us to repurpose schools, right?

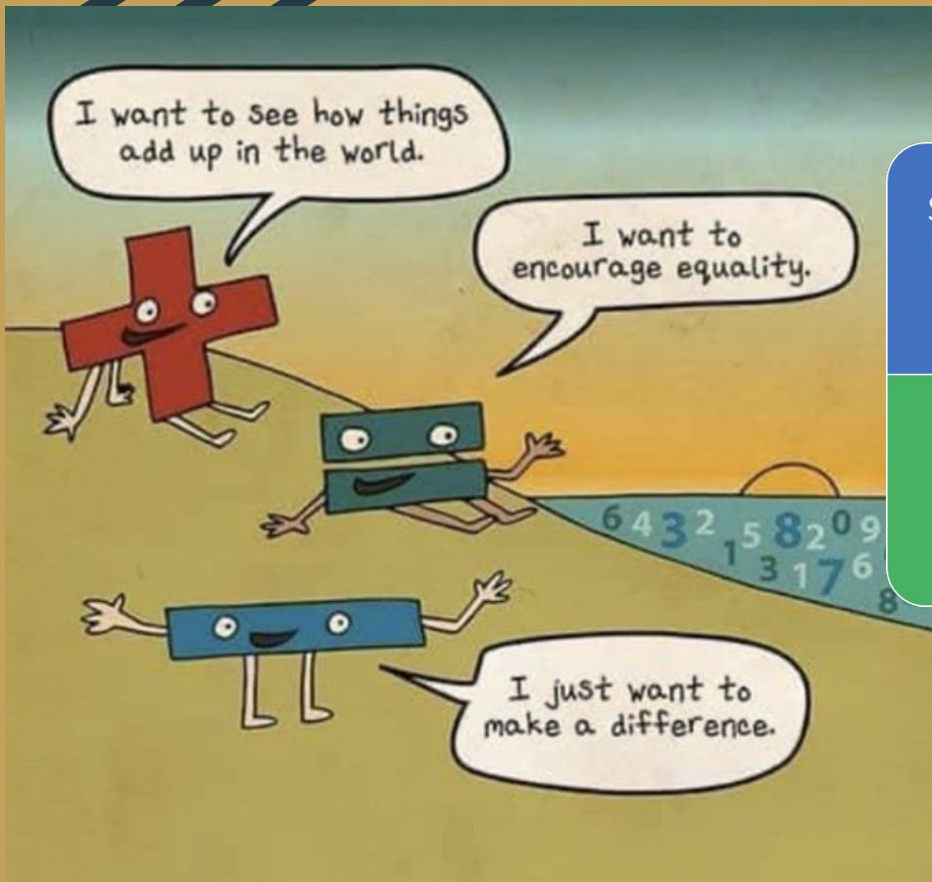
And to say that the central purpose of schools and I would argue the only purpose of schools is the wellness of the Children that are in that space. And that that doesn't preclude you from teaching reading or writing or math or pE or any of this other stuff, but you're teaching reading for what to make sure that the child as well.

You read to be well, you do math to be well, you do science to be well not to get a job, not to go to college, right? Not to escape your neighborhood, not to escape your people, right? You do it to be well, right? And if you if you read to be well, I'm not worried about whether or not you're going to college because if you're well and you want to go to college, you're going to college.

# EMCC Embedded Tutoring: Collaboration for Student Success



# Program Goals



Support Students in Dev Ed  
Math and Biology Gateway  
Courses

Increase Successful Course  
Completion Rates

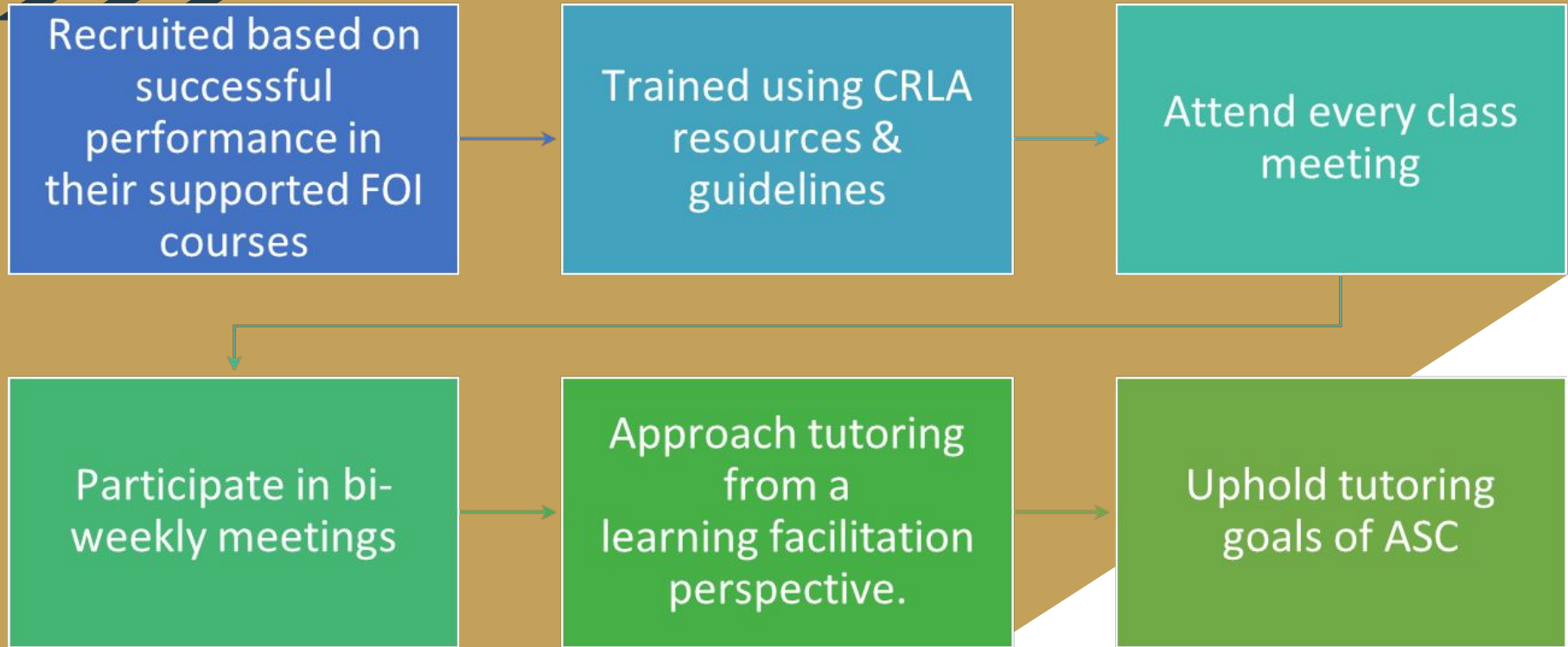
Support Guided  
Pathways

Improve Students'  
Confidence & Mindset

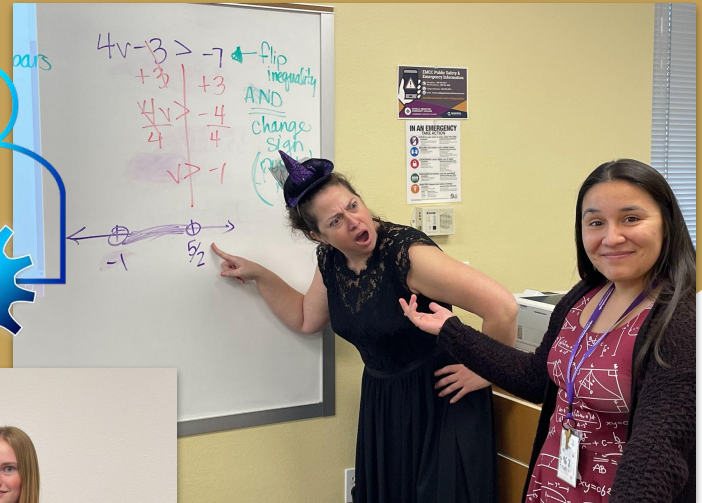
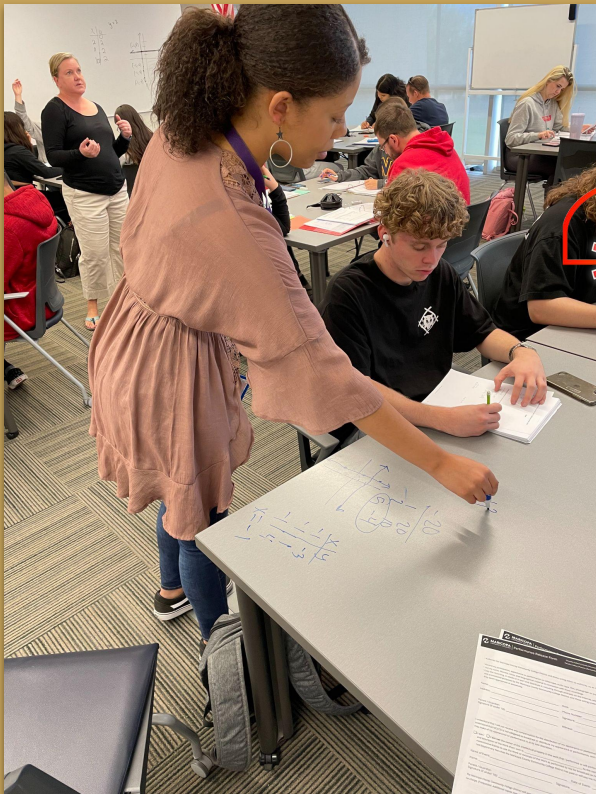
Increase Student  
Engagement



# Hiring and Training of Embedded Tutors



# Embedded Tutoring: Building Relationships to Support Student Success



# Promoting Equitable Student Success: Role of Embedded Tutor

## In Class

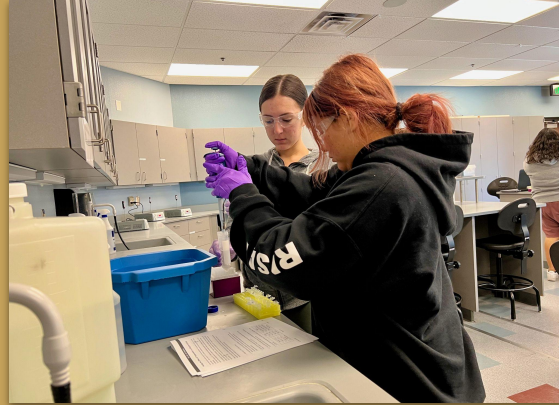
- Be an active presence in the classroom
- Model active student behavior
- Be a resource to students
- Rotate within the class to help all students
- Promote independent learning

## Outside of Class

- Engage in discussion boards
- Email outreach to engage struggling students
- Individual/group tutoring and review sessions, in-person and online
- Strategies for studying, time management, organizational skills
- Connect students to campus resources

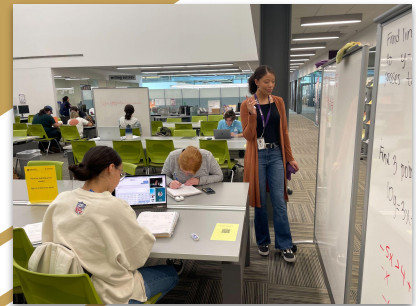
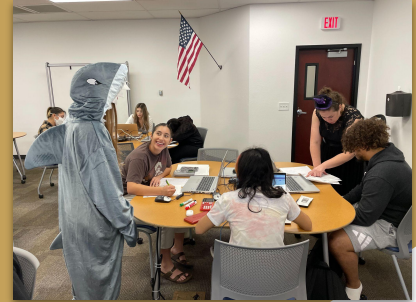


# ET in Action





# ET in Action





# ET Impact

- 4 DX Tracking
- Surveys
- Success Outcomes Dashboards
- Equity Research

## Title V W.I.G.

Improve students' timely and successful gateway course completion with equity through the Embedded Tutor program.

### GOAL #1

Increase student academic engagement in gateway courses.(Note: Student engagement correlates with retention.)

### GOAL #2

Engage in cross-functional collaboration to support students and their success

### Lead Measure

Track student-tutor touch points weekly and increase overall contacts by 2% from F22 to Sp 23.

### Lead Measure

BIO & Math ET Team Orientations each semester  
Monthly BIO & Math ET Team meetings (ASC, faculty, Title V)

## EMCC W.I.G.

Increase the number of graduate/completers by 25% with equity by Academic Year 2023

## 4Dx

Science	Fall 2022:
Total:	1124
In-Lab	686
In-Lab RVW	0
Group:	275
1:1:	100
EM:	63

Math	Fall 2022:
Total:	5991
In class	5708
In class RVW	2
Group:	94
1:1:	184
EM:	3

# “Protect these tutors. They are amazing.”

*BIO156XT student, Fall 2021*

Student feedback indicates that embedding tutors in the classroom increases student engagement, creates community and enriches the student's learning experience.



62% of respondents

Having an embedded tutor helped me feel comfortable asking for help.



60% of respondents

Having an embedded tutor deepened my understanding of course topics and concepts.



49% of respondents

The embedded tutor improved my critical thinking skills.



73%

My tutor helped me to improve my study skills

"The only recommendations that I will give, is that I believe there should be a tutor in every online class! It is just a wonderful resource to have!"  
*Student Feedback, Spring 2022*

71%

My experience makes it more likely I will seek tutoring in OTHER classes.



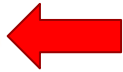
Biology Spring 2022

71%

My tutor makes this class more engaging and *supportive* for me.

# Success Outcomes Dashboards: **BIO 156**, **181** & **201**

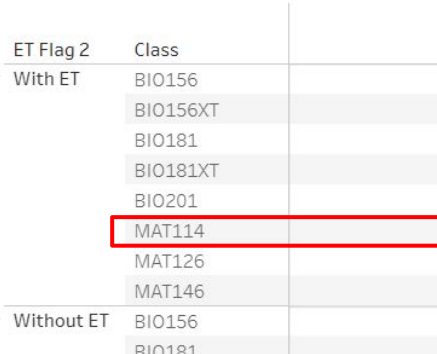
## ET Success by Course



ET Flag 2	Class	Spring 2020		Spring 2022	
		# Enrolled	% Success	# Enrolled	% Success
With ET	BIO156	70	72.9%	11	72.7%
	BIO156XT			12	83.3%
	BIO181	45	80.0%		
	BIO181XT			23	47.8%
	BIO201	72	86.1%	24	83.3%
	MAT114			105	63.8%
	MAT126	273	67.4%		
Without ET	MAT146	254	53.9%		
	BIO156	71	57.7%		
	BIO181	302	66.9%	53	52.8%
	BIO201	178	77.0%	36	72.2%
	MAT103			55	78.2%
	MAT114			69	50.7%
	MAT121	186	74.2%		
	MAT126	17	64.7%		
	MAT141	306	72.2%	131	64.9%
	MAT146	15	66.7%		

# Success Outcomes Dashboards: **MAT 114**

## ET Success by Course

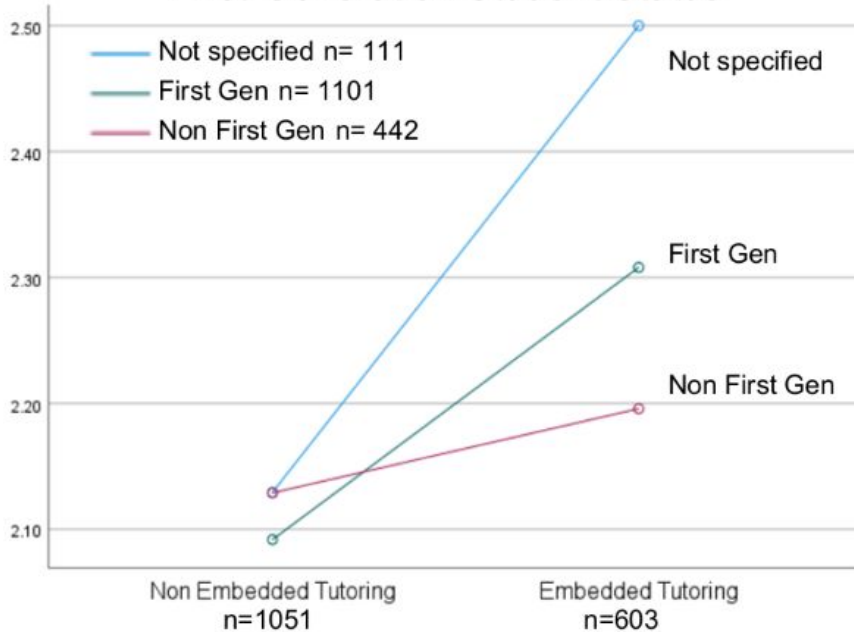


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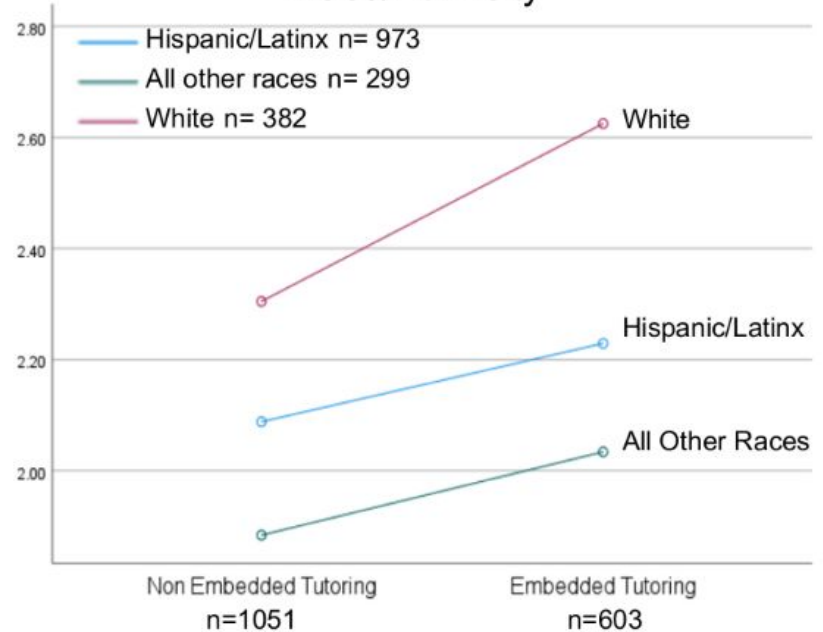
# ET and Success with Equity: Math 114

N=1654, Fall 2020-Spring 2022

## First-Generation Student Status



## Race/Ethnicity

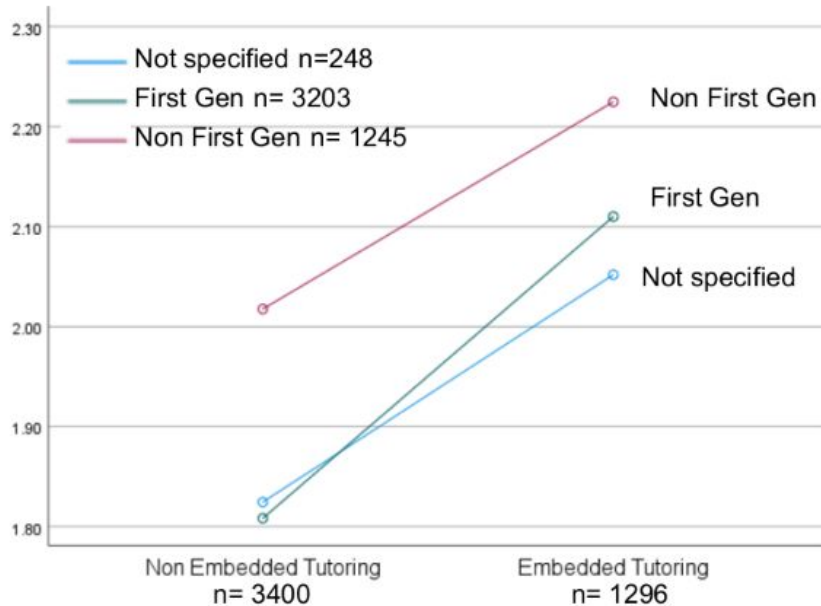


Significant main effects: Race ( $p < .01$ ) and ET or no ET ( $p < .05$ ) on success in MAT 114 classes, not sig: First Gen Status on success ( $p = .71$ ); higher scores indicate higher final grade in the class (grades coded as 0, 1, 2, 3, or 4, like GPA)

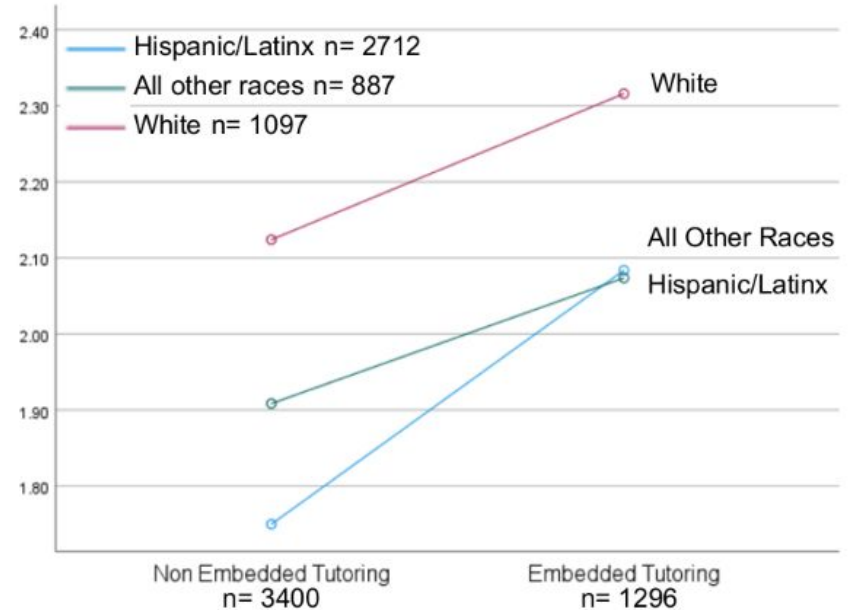
# ET and Success with Equity: BIO 156, 181 & 201

N=4696, Fall 2019-Spring 2022

## First-Generation Student Status



## Race/Ethnicity



Significant main effects: Race on success ( $p < .001$ ); First-Generation Student Status on success ( $p < .05$ ); and ET or no ET on success ( $p < .001$ ) in 3 Bio classes; higher scores indicate higher final grade in the class (grades coded as 0, 1, 2, 3, or 4, like GPA)

# Final point

ET creates an engaged community of learners including the students, tutors, faculty, and ASC that improves confidence, comfort, and academic achievement.



# JAMBOARD



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“OPTIMISM IS THE FAITH  
THAT LEADS TO  
ACHIEVEMENT. NOTHING  
CAN BE DONE WITHOUT  
HOPE AND CONFIDENCE.”

HELEN KELLER



# Thanks!

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Title V Program



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