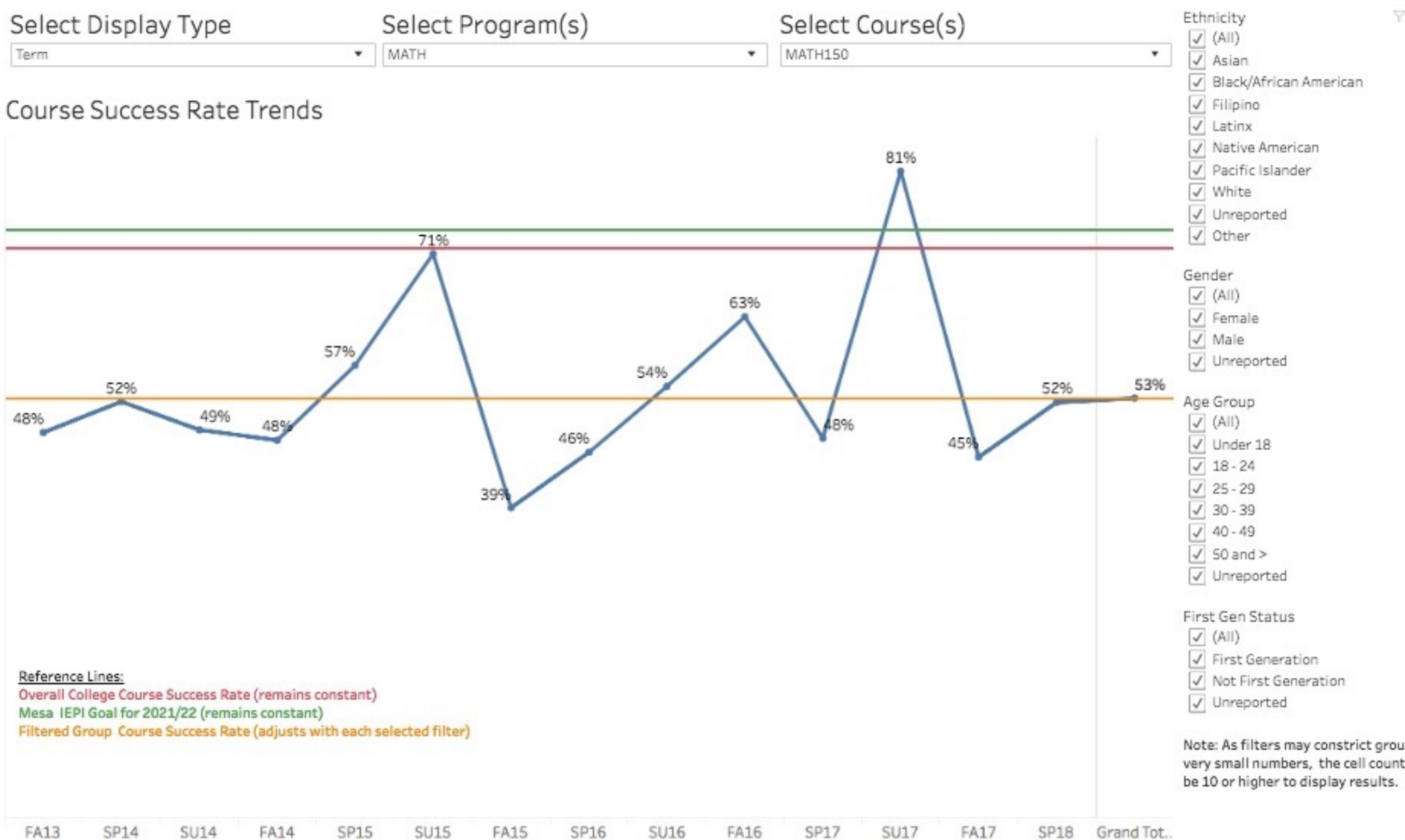


STEM Peer Mentoring Program

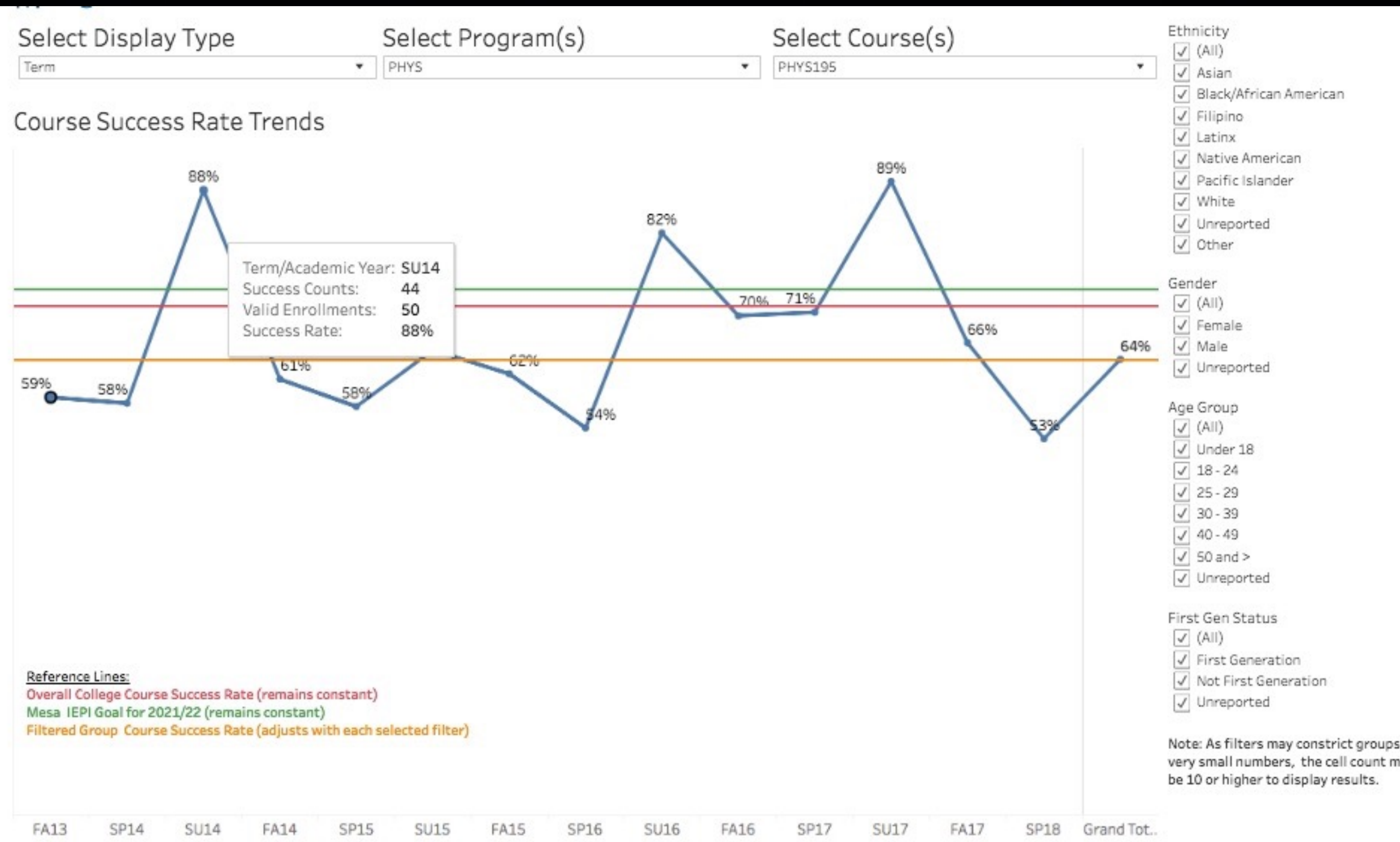


- BIOL 210A & BIOL210B
- CHEM 200 & CHEM 201 & CHEM 231
- ENGE 200 & ENGE 250
- MATH 150, MATH 151 & MATH 252
- PHYS 195 & PHYS 196 & PHYS180A

Low success STEM courses for STEM majors targeted by the SPM program



Low retention/success STEM courses for STEM majors targeted by the SPM program





CHEM200/201

Tina Tebyanian
[Bio / Video](#)



CHEM231

Leo Intriligator
[Bio / Video](#)



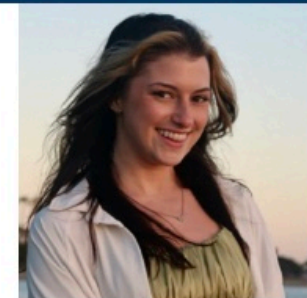
ENGE200

Sam Brown
[Bio / Video](#)



ENGE250

Alex Ngo
[Bio / Video](#)



MATH150/151

Constantin Ghilici
[Bio / Video](#)



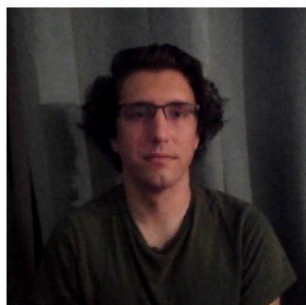
MATH150/151

Evan Smith
[Bio / Video](#)



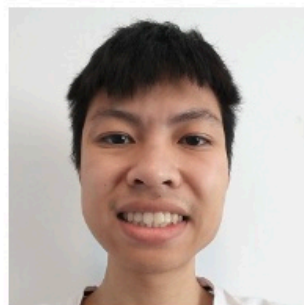
MATH150/151

Karolina Cardenas
[Bio / Video](#)



MATH150/151/252

Stefan Wendel
[Bio / Video](#)



PHYS195

Aryo Kharrati
[Bio / Video](#)



PHYS195

Christopher Lozano
[Bio / Video](#)



PHYS195

Martin Campos
[Bio / Video](#)



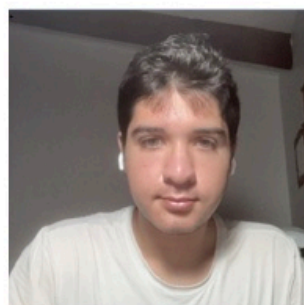
PHYS196

Matteo Miller-Nicolato
[Bio / Video](#)



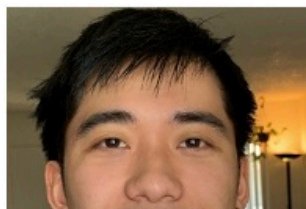
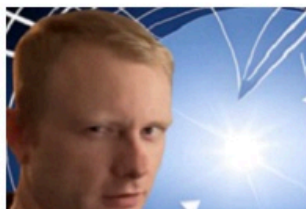
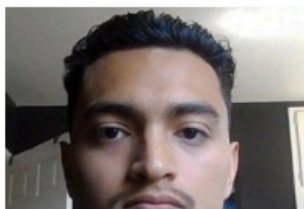
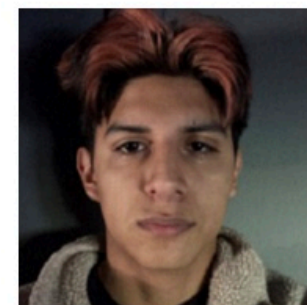
PHYS196

Nhut (Nick) Vo
[Bio / Video](#)

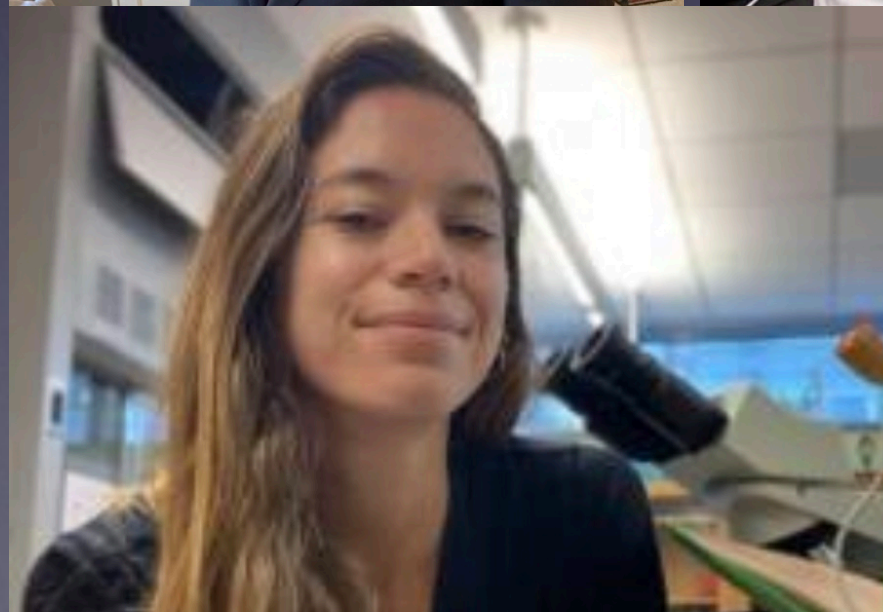
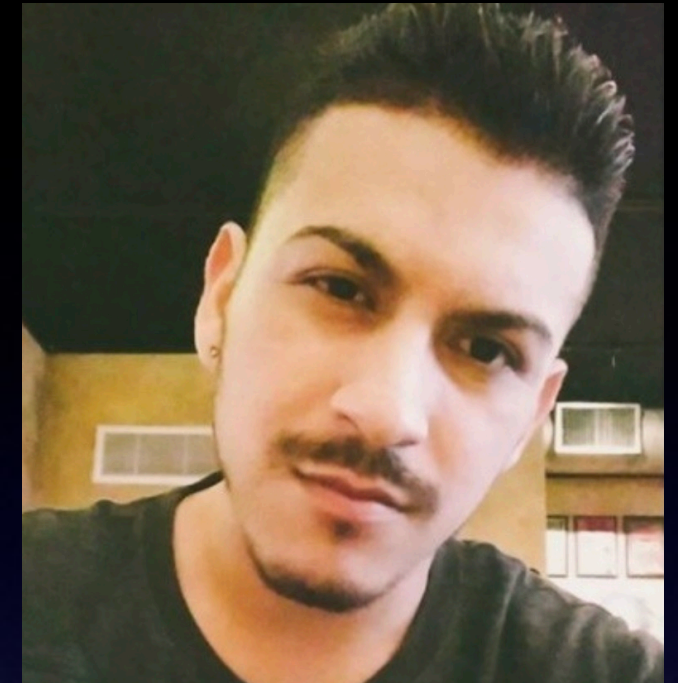


PHYS180A

Jelani Morton
[Bio / Video](#)



Faculty weekly meet and subject train mentors





Peer Mentors Provide Academic/ Course Support like tutors but...



- You identify a “good student” in your class this semester and they can work as mentors with your students in the next semester!
- Any faculty can directly be involved in what is done in the mentoring sessions; mentor can be on their Canvas shell. Or they can be hands off and let the faculty liaisons organize mentors.
- Mentors just went through the same course, with the same instructor, so they can model good behaviors and encourage students to persist. They are relatable as well!
- Research done on the STEM Peer mentoring shows that it can reduce course failure rate by as much as 61% (Beetinger and Baker 2011).

Course Outcomes & Equity Gap Analysis

Select Academic Year(s)
2022/23

Select Term(s)
(All)

Select Characteristic
Overall

Select Outcome
Course Success Rate
Including EW Grades

← Select outcome metric here

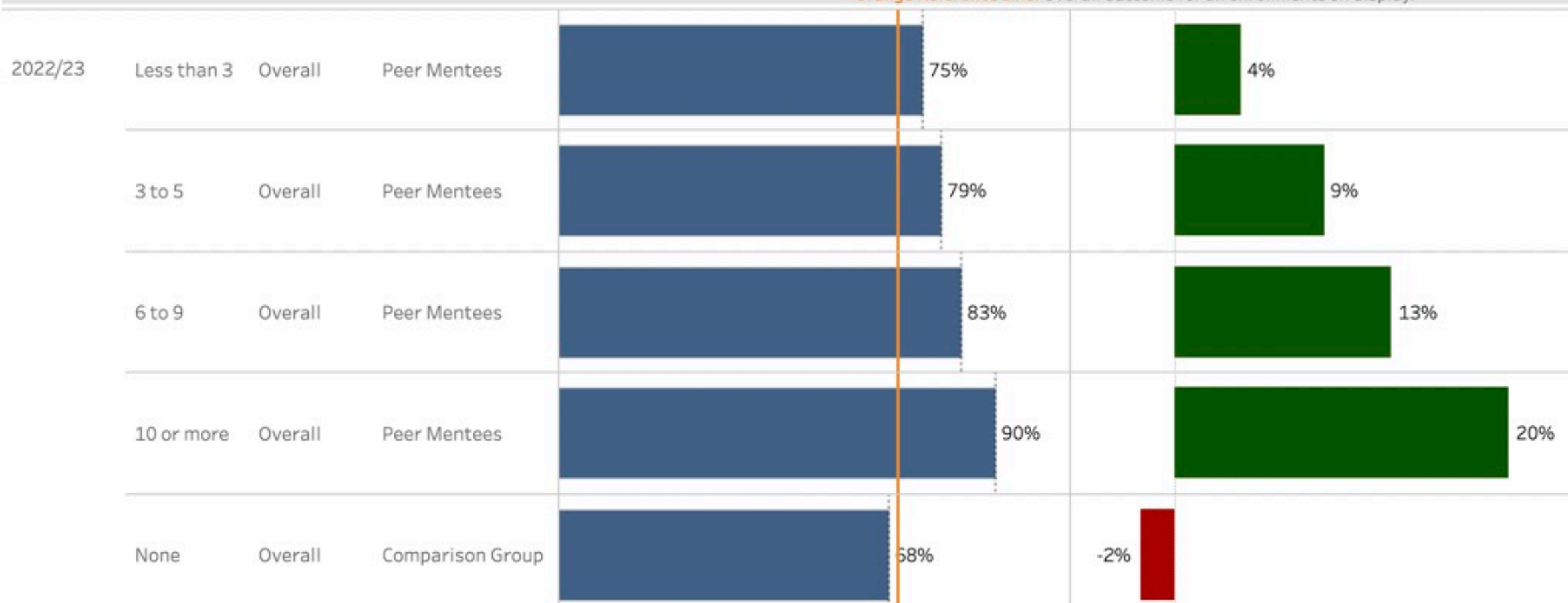
Select View
☐ Total
☐ By Course
☒ By Number of Visits

Course Success Rate by Overall

View: By Number of Visits | Academic Year(s): 2022/23 | Term(s): All | Course(s): All

☒ Annual
☐ Term

Orange Reference Line: Overall outcome for all enrollments on display.



Select Course(s)

- ☒ (All)
- ☒ BIOL210A
- ☒ BIOL210B
- ☒ CHEM200
- ☒ CHEM201
- ☒ CHEM231
- ☒ ENGE200
- ☒ ENGE250
- ☒ MATH104
- ☒ MATH116
- ☒ MATH150
- ☒ MATH151
- ☒ MATH252
- ☒ PHYS180A
- ☒ PHYS180B
- ☒ PHYS195
- ☒ PHYS196
- ☒ PHYS197

Course Outcomes & Equity Gap Analysis

Select Academic Year(s)
2022/23

Select Term(s)
(All)

Select Characteristic
Ethnicity

Select Outcome
Course Success Rate
Including EW Grades

← Select outcome metric here

Select View
☐ Total
☐ By Course
☒ By Number of Visits

Course Success Rate by Ethnicity

View: By Number of Visits | Academic Year(s): 2022/23 | Term(s): All | Course(s): All

☒ Annual
☐ Term

Orange Reference Line: Overall outcome for all enrollments on display.

2022/23	Less than 3	African American	Peer Mentees	61%	-9%
		Asian	Peer Mentees		
		Latinx	Peer Mentees	72%	2%
		White	Peer Mentees	82%	12%
		Other	Peer Mentees		
	3 to 5	Asian	Peer Mentees	90%	20%
		Latinx	Peer Mentees	83%	13%
		White	Peer Mentees		
	6 to 9	Asian	Peer Mentees	87%	17%
		Latinx	Peer Mentees	82%	12%
		White	Peer Mentees		
	10 or more	Asian	Peer Mentees	90%	20%
		Latinx	Peer Mentees	88%	18%
		White	Peer Mentees		
		Other	Peer Mentees	90%	20%
	None	African American	Comparison Group	68%	-2%
		Asian	Comparison Group		
		Latinx	Comparison Group	56%	-14%
		White	Comparison Group	78%	8%
		Other	Comparison Group		
		Unknown	Comparison Group		

Select Course(s)

- ☒ (All)
- ☒ BIOL210A
- ☒ BIOL210B
- ☒ CHEM200
- ☒ CHEM201
- ☒ CHEM231
- ☒ ENGE200
- ☒ ENGE250
- ☒ MATH104
- ☒ MATH116
- ☒ MATH150
- ☒ MATH151
- ☒ MATH252
- ☒ PHYS180A
- ☒ PHYS180B
- ☒ PHYS195
- ☒ PHYS196
- ☒ PHYS197

Course Outcomes & Equity Gap Analysis

Select Academic Year(s)
2022/23

Select Term(s)
(All)

Select Characteristic
Ethnicity

Select Outcome
Course Success Rate
Including EW Grades

← Select outcome metric here

Select View
☐ Total
☐ By Course
☒ By Number of Visits

Course Success Rate by Ethnicity

View: By Number of Visits | Academic Year(s): 2022/23 | Term(s): All | Course(s): MATH150, MATH151, PHYS195

Orange Reference Line: Overall outcome for all enrollments on display.

2022/23	Less than 3	Asian	Peer Mentees	55%	-19%
		Latinx	Peer Mentees	73%	0%
		White	Peer Mentees	62%	-11%
3 to 5		Asian	Peer Mentees	85%	12%
		Latinx	Peer Mentees	71%	-2%
		White	Peer Mentees	63%	-11%
6 to 9		White	Peer Mentees	86%	13%
10 or more		Latinx	Peer Mentees	88%	15%
		White	Peer Mentees	94%	21%
None		African American	Comparison Group	74%	1%
		Asian	Comparison Group	71%	-2%
		Latinx	Comparison Group	62%	-11%
		White	Comparison Group	81%	8%
		Other	Comparison Group	80%	7%
		Unknown	Comparison Group	80%	7%

Select Course(s)

- ☐ (All)
- ☐ BIOL210A
- ☐ BIOL210B
- ☐ CHEM200
- ☐ CHEM201
- ☐ CHEM231
- ☐ ENGE200
- ☐ ENGE250
- ☐ MATH104
- ☐ MATH116
- ☒ MATH150
- ☒ MATH151
- ☐ MATH252
- ☐ PHYS180A
- ☐ PHYS180B
- ☒ PHYS195
- ☐ PHYS196
- ☐ PHYS197

Note: As filters narrow, results may be small. Minimum cell counts must be 10 to display results. Dotted line (-): Overall outcome for all enrollments within a specific category (e.g., male).

Prez's email 12/22

- General tutors in the STEM Center held **728 in-person sessions serving 237 students**.
 - Combined you provided help in Anatomy & Physiology, Biology, CBTE, Chemistry, Mathematics, Philosophy, Physics, and Psychology.
 - Math 104 was the most in-demand subject with 106 sessions – followed by Chemistry 100 (79) and Math 119 (66)
- General tutors in the Virtual STEM Center held **1,117 online sessions for 197 students**.
 - As team you supported students in Anatomy & Physiology, Anthropology, Astronomy, Biology, Business, Biology, Chemistry, Computer Science, Economics, Geology, Mathematics, Physics, and Psychology.
 - CISC 190 was the most in-demand subject with 169 sessions – followed by Math 096 (103) and Math 104 (101).
- Embedded Tutoring attendance in STEM courses hit **760 session visits by 193 students**.
 - ETs provided direct classroom support for Anatomy & Physiology, Anthropology, Biology, Chemistry, Computer Science, and Mathematics.
- STEM Peer Mentoring attendance totaled **3,436 session visits by 305 students**.
 - PMs provided mentoring in upper-division Biology, Chemistry, Engineering, Mathematics, and Physics.
- In total approximately **730 unique students attended over 6,000 sessions and meetings** with all of you across general tutoring, embedded tutoring, and peer mentoring.

Spring 2023 – 3287/700

Fall 2023 – 2430/887 (Math150/151/252 only: 564/259)

**STEM Peer Mentor
Program Coordinator
Physics Professor
Irena Stojimirovic**
istojimi@sdccd.edu



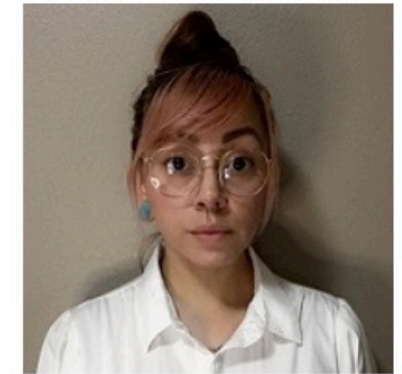
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**MT2C Instructional
Lab Technician
Zoe Adler**
zadler@sdccd.edu



- HSI Team:

Recruiting/Interviewing

Training/CheckIn

Scheduling/Supervision

Communicating/Resources





Surveys to mentees STEM culture



- We sent out Survey to students attending mentoring sessions.
- Surveys indicates that "the Peer Mentoring program has been successful at encouraging students' willingness to seek out help.
- 90%+ of students indicated they would seek assistance from their instructor and
- 90%+ indicated they would seek assistance from other students, if needed.
- 80%+said that their Peer Mentoring sessions helped them become more successful in their respective class.
- 60%+ of respondents reported they received support in the area of study skills.