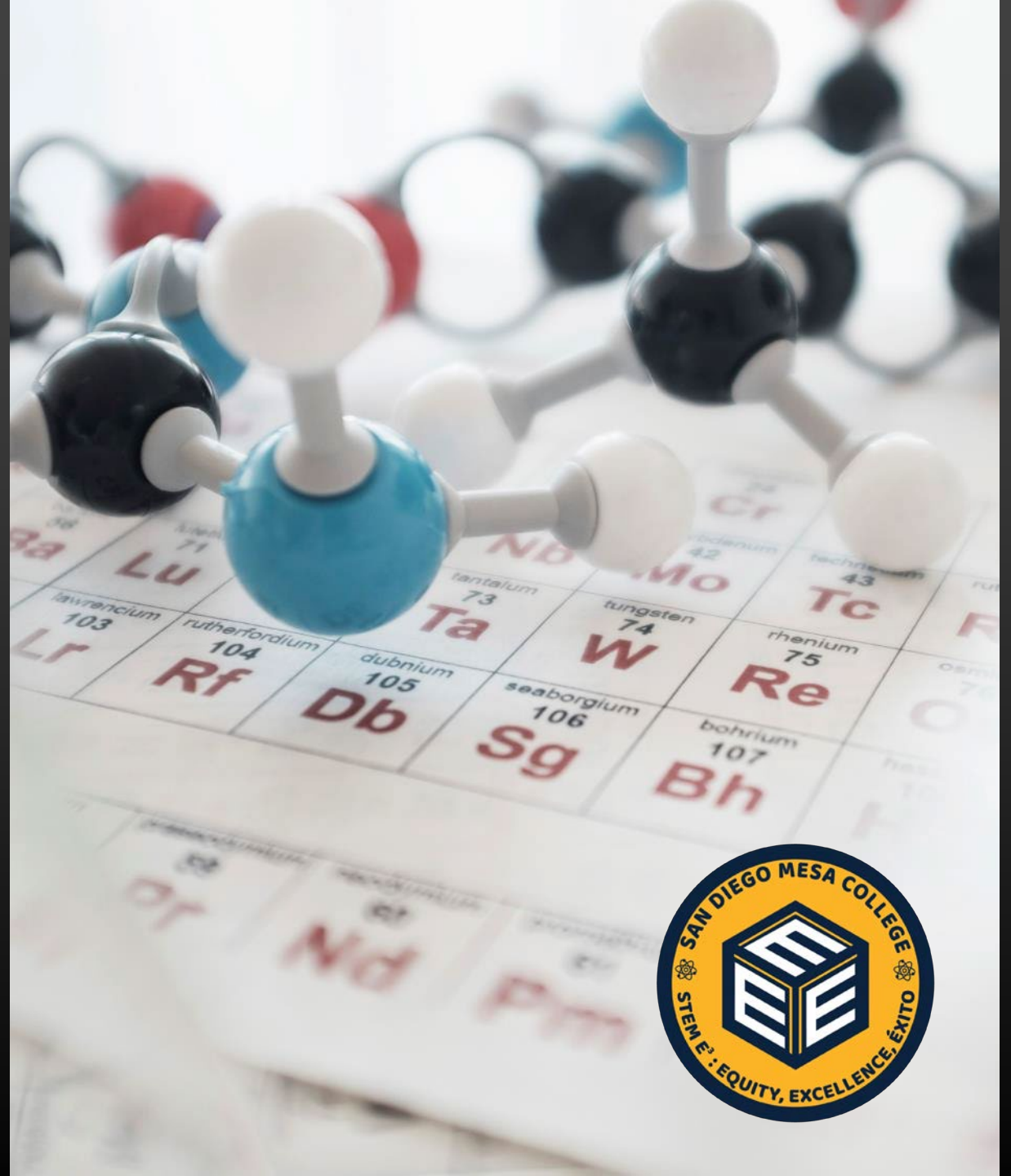




HSI Title III • STEM E³: Equity, Excellence, & Exito

Dr. Toni Trejo Parsons
President's Cabinet
November 4, 2025



Federal Update

- **Received Year 5 - \$999,999**
- **Received Supplemental Award - \$348,642**
 - Did not apply for this
 - Believe this was evenly dispersed from monies not awarded to other grants
- **Carryover - \$537,557**
 - From Year I
 - Savings from last semester
- **New HSI grants**
 - Government shutdown
 - Summer proposal retracted
- **Moving forward as normal**
 - External Evaluator
 - Preparing for APR



Grant Activities

- **Peer Mentoring**

- Academic support program with peer mentors and faculty liaisons within specific STEM courses with the largest equity gaps. Biology, Chemistry, Math, and Physics

- **Workshops**

- Semester series of Biochemistry and Engineering workshops. Students receive a certificate of completion at the end of the series.

- **Professional Development**

- Goal to increase the number of STEM faculty and staff engaged in culturally responsive, STEM focused professional development.

- **STEM Center**

- Dedicated space in the Learning Resource Center for STEM tutoring, peer mentoring, STEM counseling, study jams, and all things STEM.

- **Path to STEM Success**

- Series of events dedicated to the success of our STEM students. Begins with a STEM focused orientation for new students followed by workshops throughout the semester.

- **Curriculum Workgroup**

- Multi-discipline group of STEM faculty focused on streamlining curriculum, creating STEM pathways, and advocating for student needs.

- **Free Online Homework**

- Faculty designed homework with built in support that is kept in-house and is free to students. Chemistry, Biology, and Physics

- **Studio Classroom Redesign**

- Redesign of four classrooms to create a more collaborative and innovative learning experience. Physics, Math, Biology, Chemistry



Year 3 Objectives (adjusted baseline)

Objective	New Baseline	Year 3 Target	Year 3 Actual
By 2026, there will be a 10% increase in the number of Hispanic and low-income full-time STEM field degree-seeking undergraduate students enrolled at Mesa, from 1079 to 1187	1079	1133	1462
By 2026, there will be a 13 percentage point increase in the success rate of Hispanic students in STEM gateway course completion, from 56.8% to 69.8%.	56.80%	63.30%	60.20%
By 2026, there will be a 10 percentage point increase in the annual percentage of Hispanic students transferring successfully into a STEM field at a four-year institution, from 37.3% to 47.3%	37.30%	42.30%	26.80%
By 2026, there will be a 50% increase in the number of Hispanic and low-income students participating in peer mentoring , from 213 to 320	213	266	615
By 2026, there will be a 8% decrease in average number of units accumulated by Hispanic associate STEM degree earners, from 86.8 to 79.9 units	86.8	83.3	84.7
By 2026, there will be a 15% increase in the annual number of STEM AA graduates who are Hispanic, from 102 to 117	102	108	108
By 2026, the number of faculty and staff trained in equity-based teaching and learning , or academic, financial, and culturally inclusive approaches to student advisement, will triple, from 25 to 75.	25	55	85 (running) 42 in Year 3

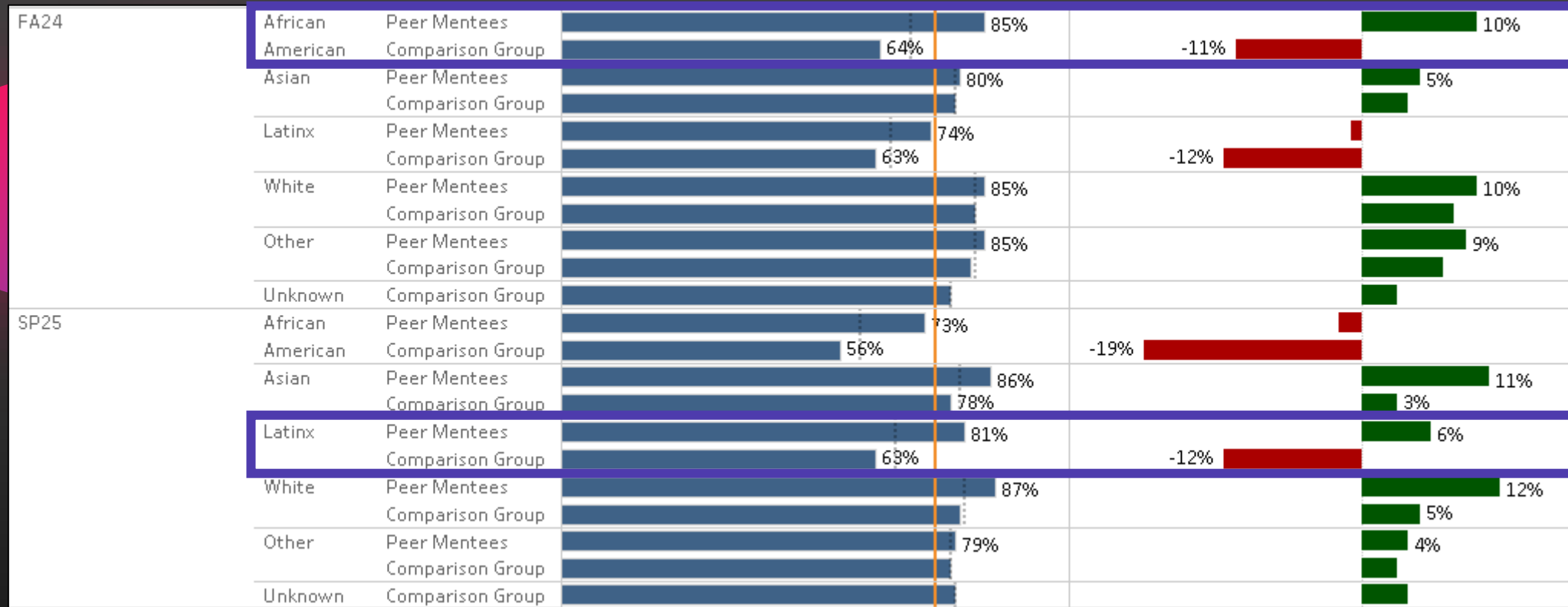


Peer Mentoring

	FA24				SP25			
	Peer Mentees		Comparison Group		Peer Mentees		Comparison Group	
	Headcount	Headcount %	Headcount	Headcount %	Headcount	Headcount %	Headcount	Headcount %
African American	18	5%	41	3%	21	5%	61	4%
Asian	64	17%	244	21%	65	16%	308	19%
Latinx	140	38%	383	32%	171	41%	604	37%
Native American			2	0%	1	0%	1	0%
Pacific Islander	1	0%	6	1%	1	0%	5	0%
White	107	29%	385	32%	125	30%	485	30%
Other	31	8%	113	9%	28	7%	135	8%
Unknown	6	2%	16	1%	6	1%	23	1%

- Fall 24 served 367 unique STEM students
- Spring 25 served 418
- The ethnic breakdown of peer mentees is very close to the overall breakdown of the college

Peer Mentoring



- Fall 24, African American mentees had 21% points higher success rates than non-mentees
- Spring 25, Latinx mentees had 18% points higher success rates
- ALL ethnic groups benefitted from peer mentoring

Free Online Homework Being Developed

- Chem 152 (Introduction to General Chemistry)
- Chem 20 (Introduction to General Chemistry Refresher)
- Bio 210B (Introduction to Biological Sciences)
- Phys 19
- Chem 200 (General Chemistry)
- How much money does it save students?
 - Online HW costs ~\$65 per student
 - Chem 152: 48 students per section, ~8 sections per year
 - ~\$25,000 / semester
 - Bio 210 A/B: 48 students per section, ~5 sections per year
 - ~\$15,00 / semester
 - Phys 19: 48 students per section, ~1 section per year
 - ~\$3,000 per semester



Engineering Workshops

“The workshop helped me visualize my future goals by getting practical experience in creation and designing.”



“I would like to see more workshops that focus on specific skills such as this one...because I feel that the application is very important to remember the theory”

BioChemistry Workshops



Challenges

- Peer Mentoring:
 - Funding – supervisor, hourly mentors, space
 - STEM Center supervisor position is not institutionalized
 - Demand- hard to keep up with growth – Students & courses
 - Extra work for faculty liaisons
- Workshops:
 - Funding
 - Finding faculty to facilitate the workshops outside of their teaching load
- Curriculum Workgroup:
 - Addressing legislation that has impacts on our students (AB 705 and AB 1705)
 - Continuing the work after the grant is done
 - Addressing all current initiatives in a manner that serves STEM Students
- Professional Development
 - Not fiscally sustainable
 - Bringing in non-choir people
 - Finding culturally relevant PD with a STEM focus



Mesa will always be
an
HServingInstitution

