

USAFA SAME CAMP EXPERIENCE

Henrik Dotzlaf



**2026 SAME Air Force
Academy Construction
& Engineering Camp**



Hands-On Work

- Concrete Beam
- Engineering Course
- Cardboard Boats



Activities & Trips

- USAFA Tour
- Space Discovery Museum



Socialization & Team Building

- Volleyball Tournament
- Flight Time
- Cadet & Mentor Panels



REFLECTION



SAME STEM CAMP Experience

SMSgt Richard Colon
USMC SAME Camp Mentor

SAME STEM Camp – MCBC Lejeune, NC

■ Intro



■ Experience



■ Interactions



■ Recommendations





ALAMO COLLEGES DISTRICT
St. Philip's College

Empowering Student Futures Through STEM Engagement

Amanda Roberts, PhD

Eric Salas, PhD

Academic Program Directors,
Center of Excellence for
Mathematics & Science



ALAMO
COLLEGES
DISTRICT



Malcolm Baldrige
National Quality Award

Award Recipient
2024-2018



Meet the Leadership Team



Amanda Roberts, PhD



Eric Salas, PhD



The Legacy of St. Philip's College

- **Founded March 1, 1898, at La Villita in downtown San Antonio**
- **Began as a small weekend school serving the daughters and granddaughters of emancipated slaves**
- **Originally known as St. Philip's Normal and Industrial School**
- **Founded on a commitment to education, access, and opportunity**
- **This mission established the foundation for what would become St. Philip's College**



Centers of Excellence



The Centers of Excellence for Mathematics and Science empower students to discover, explore, and excel through experiential STEM learning, undergraduate research, mentorship, and meaningful connections with universities, industry, and the community



ALAMO COLLEGES DISTRICT
St. Philip's College



ALAMO
COLLEGES
DISTRICT



Cultivating STEM Leaders

Advance Student Success

- Expand STEM engagement
- Connect students with university partners
- Promote undergraduate research

Promote Academic Momentum

- Offer bridge and transition programs
- Prepare students for college success
- Encourage continued academic achievement
- Inspire persistence through high-impact experiences

Expand Educational Partnerships

- Strengthen collaborations with school districts
- Build university and industry partnerships
- Expand career readiness opportunities
- Increase experiential and lifelong learning





ALAMO COLLEGES DISTRICT
St. Philip's College

Fall



ALAMO
COLLEGES
DISTRICT



Malcolm Baldrige
National Quality Award

Award Recipient
2024-2018



LEADER
COLLEGE
OF DISTINCTION



Great
Place
To
Work®

Certified
MAR 2024-MAR 2025
USA

Career Day

- Provide early education on STEM Careers
- Increase HS STEM Pathway enrollment
- Enhance STEM pathway retention and completion
- Encourage STEM Pathway to earn 4-year and grad school degrees
- Develop future STEM professionals
- 150 HS students



STEM Symposium



- Inspires STEM exploration and career awareness
- Connects students with industry and higher education
- Provides hands-on, experiential learning opportunities
- Builds pathways from K–12 education to college and STEM careers
- 120 HS students





ALAMO COLLEGES DISTRICT
St. Philip's College

Spring



ALAMO
COLLEGES
DISTRICT



Malcolm Baldrige
National Quality Award

Award Recipient
2024-2018



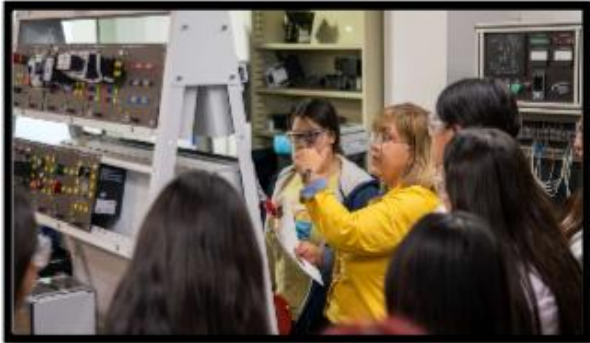
LEADER
COLLEGE
OF DISTINCTION



Great
Place
To
Work®

Certified
MAR 2024-MAR 2025
USA

Breaking Through STEM



- Hands-on STEM projects
- STEM Panel of STEM Professionals
- Info booth of STEM engagement partnerships and local colleges & universities
- 188 HS students



ALAMO COLLEGES DISTRICT
St. Philip's College



ALAMO
COLLEGES
DISTRICT



Faculty-Industry Mixer

- Provides teachers networking platform with STEM centered companies and local colleges and universities
- 15 Faculty Members
- 8 Companies



Science Extravaganza



- Showcases research and projects presented by high school and college students
- Provides hands-on science demonstrations and interactive learning activities
- Encourages curiosity, discovery, and early interest in STEM education and careers
- 400 5th grade students



ALAMO COLLEGES DISTRICT
St. Philip's College



ALAMO
COLLEGES
DISTRICT



Fiesta of Technology and Teaching Innovation

- Showcases immersive learning through XR and virtual reality technologies
- Provides hands-on demonstrations using Oculus headsets
- Highlights innovative applications of XR across academic disciplines
- Engages faculty and staff in exploring technology-enhanced teaching strategies





ALAMO COLLEGES DISTRICT
St. Philip's College

Summer



ALAMO
COLLEGES
DISTRICT



Malcolm Baldrige
National Quality Award

Award Recipient
2024-2018



Department of Navy Fresh Start Bridge Program

- Supports incoming STEM students as they transition from high school to college
- Builds academic readiness and confidence through structured STEM learning experiences
- Connects students with faculty, mentors, industry professionals, and community partners
- Promotes college readiness, student engagement, and academic success



Science and Math Summer Academy (SAMSA)



- Engages students in immersive, hands-on STEM learning experiences Introduces students to engineering, rocketry, chemistry, medical sciences, manufacturing, and life sciences
- Builds early interest and confidence in STEM education and careers
- 105 MS and HS students



Motivating & Engaging with STEM Activities (MESA)



- **Project-based STEM Activities**
- **Texas Biomedical Research Institute STEM Panel**
- **St. Mary's University & SPC Tours**
- **120 MS and HS students**





ALAMO COLLEGES DISTRICT
St. Philip's College

Thank you!

Questions?



ALAMO
COLLEGES
DISTRICT



Malcolm Baldrige
National Quality Award

Award Recipient
2024-2018

