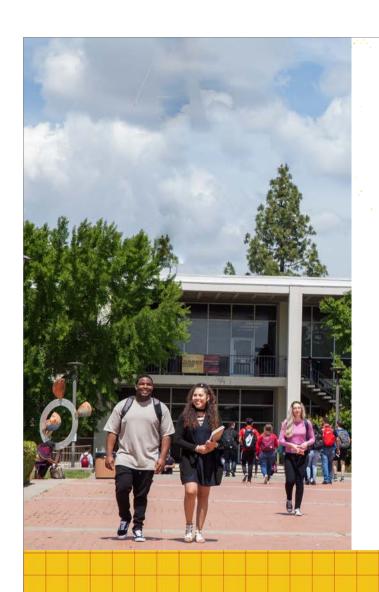


Building on STEM Success to ASPIRE

Developing HSI Grant Proposals at Stanislaus State

Harold Stanislaw and Iqbal Atwal California State University, Stanislaus





Overview

- About Stanislaus State
- Developing ASPIRE
- Important tips
- Your turn!

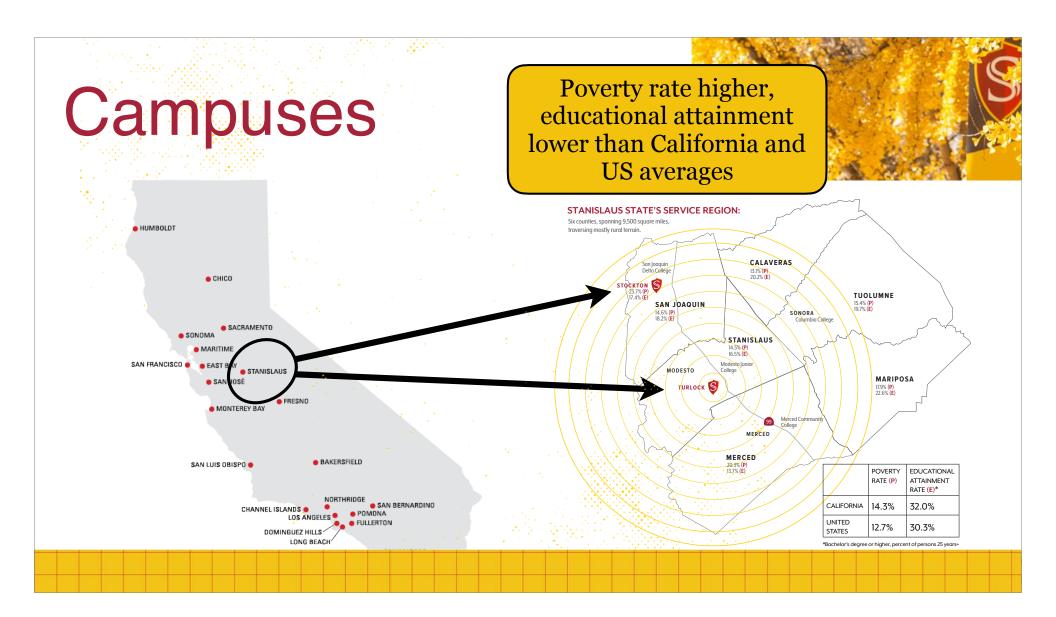


Special thanks!

- Elizabeth Monroe and Missy Lebray
- US Department of Education Title III
 Part F awards
 - P031C210159 (2021-2026)
 - P031C160070 (2016-2021)
 - P031C110082 (2011-2016)

HSI-STEM grants



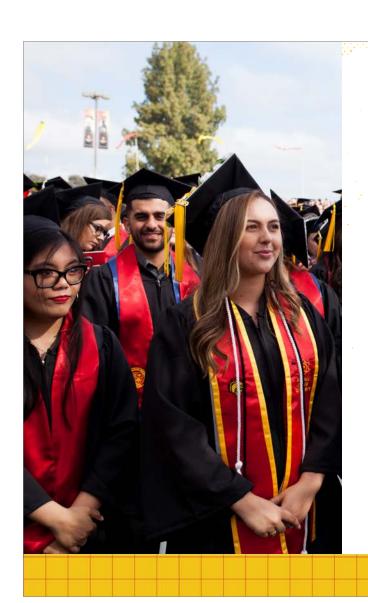


Students

- 9,199 undergrads (Fall 2021)
 - 58% Hispanic
 - 60% Pell-eligible
 - 73% first generation
 - 68% female







Proposals



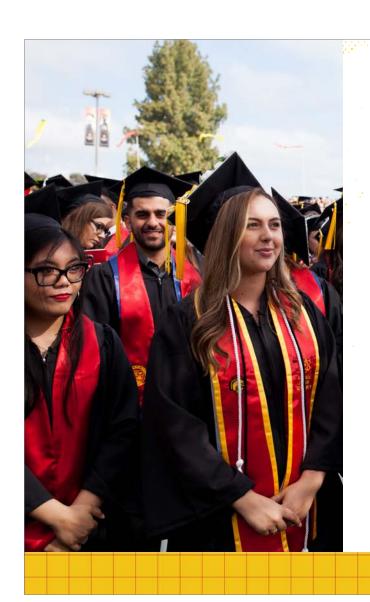
✓ 2011: Title III Part F ("CVMSA")

✓ 2016: Title III Part F ("STEM Success")

× 2019: Title V Part B (PPOHA)

× 2020: Title V Part A (DHSI)

✓ 2021: Title III Part F ("ASPIRE")



Proposals



✓ 2011: Title III Part F ("CVMSA")

✓ 2016: Title III Part F ("STEM Success")

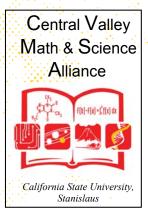
✓ 2021: Title III Part F ("ASPIRE")

HSI-STEM grants



HSI-STEM grants

- Main goal is to increase students graduating in STEM
- Primarily serve historically underrepresented groups
 - Ethnic/racial minorities (e.g., Hispanic students)
 - Economically disadvantaged
 - First in family to attend college
 - Female (some STEM majors)









CVMSA STEM Success ASPIRE

2011

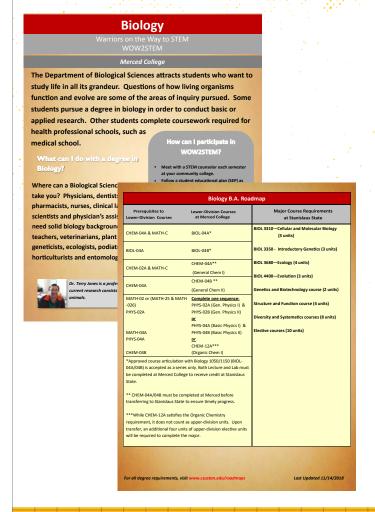
- Articulation for transfer students
- Faculty mentors
- Campus resource center for STEM

<u>2016</u>

- Articulation for transfer students
- Faculty research
- Summer academy for incoming STEM majors

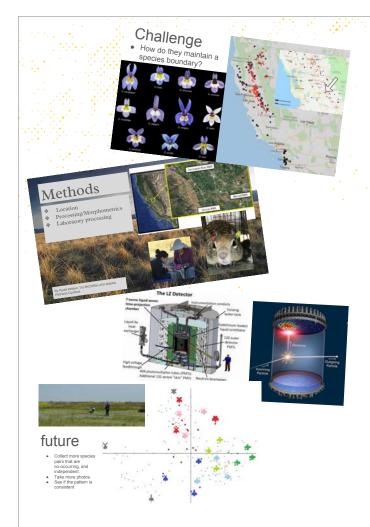
<u>2021</u>

- Articulation and outreach for transfers
- Peer mentors
- Career preparation resources
- Mental health services



Articulation

- 2011: Developed roadmaps for STEM majors with 3 community colleges
- 2016: Expanded roadmaps to 10 community colleges; added professional development for articulation personnel
- 2021: Began outreach to students entering STEM at 3 community colleges



Mentoring

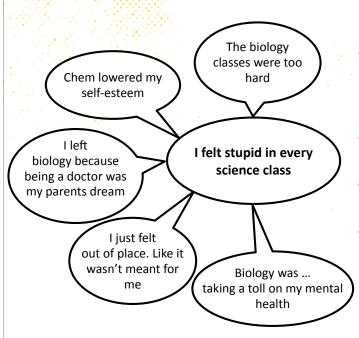
- 2011: Faculty mentor students (e.g., take to lunch)
- 2016: Students collaborate on faculty research; small number of peers assist in STEM academy
- 2021: Pair every incoming STEM major with a peer mentor





Resources

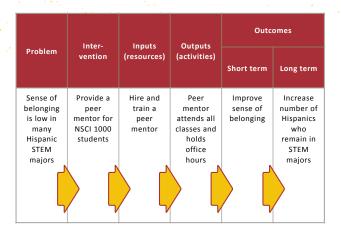
- 2011: Campus space for STEM majors, including peers
- 2016: Summer STEM academy for incoming students
- 2021: Paid internship opportunities and professional preparation experiences



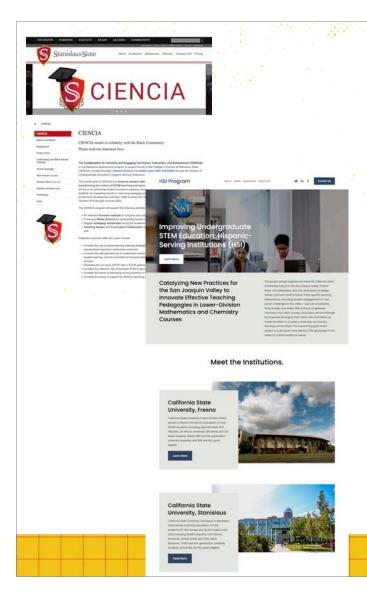
Process

- Continuously gathered data to learn what worked and identify gaps
- Studied why students leave STEM
- Learned from others (e.g., AHSIE)
- Targeted belonging and other psychosocial skills critical to academic success

Model of change



- 2011: Build a campus STEM community
- 2016: Focus on belonging and other psychosocial skills
- 2021: Continue focus on belonging; link education to career aspirations



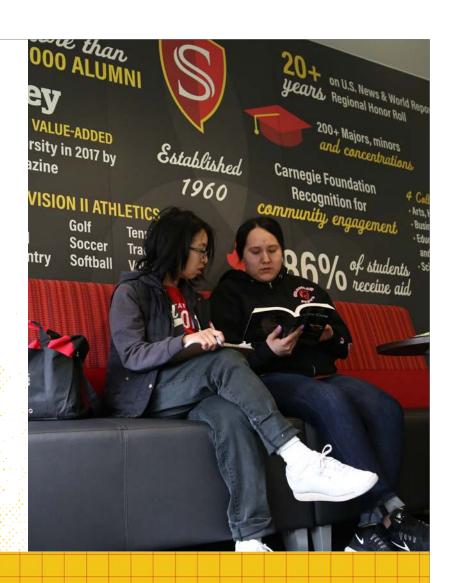
Fit with other programs

- NSF HSI grant focusing on culturally-sensitive pedagogy
- NSF HSI collaborative grant (with Fresno State and CSU Bakersfield) focusing on innovative curriculum
- ASPIRE focuses primarily on cocurricular student needs



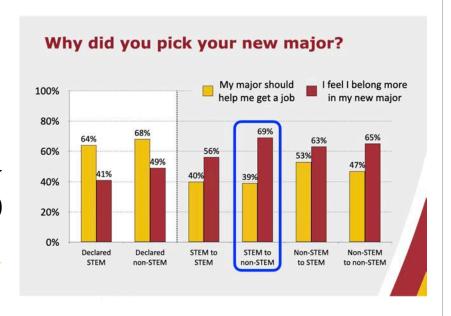
Start now!

- Maintain a list of program ideas
- Launch low-cost pilot studies
- Identify data needs and build new capacity as needed
- Register studies with the What Works Clearinghouse

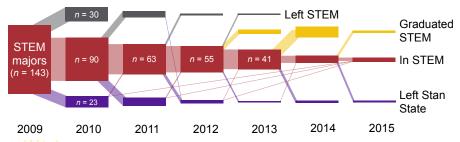


Be data-driven

- Learn from your students
 - Study who succeeds, who doesn't, and why
 - Use existing resources (e.g., IPEDS, NSSE)
 - Build your own data sources
- Highlight data analysis in your proposal
 - Include a data analyst in your budget
 - Describe process for learning from your data



2009 First-Time Freshmen Who Entered as STEM Majors





Bring your A-team

- You need a team
- Break out of traditional silos
- Give voice to key stakeholders
- Include allies needed for sustainability after the grant ends
- Solicit student feedback



Honor priorities

- You must respond to priorities
 - 2020 DHSI cutoff = 106.33 (out of 100)
- Apply only if RFP priorities = institutional priorities
 - Don't divert resources from programs you love to programs you don't
 - After the grant ends, programs will end if they don't align with institutional priorities



Learn from rejection

- What can your unfunded proposals teach you?
 - Were your ideas vague? Did they lack focus?
 - Can your logic model be strengthened?
 - Were there issues with your budget?
- What can your unsubmitted proposals teach you?
 - Whose support did you lack?
 - What resources did you need?
 - Can your proposal workflow be improved?



Learn from others

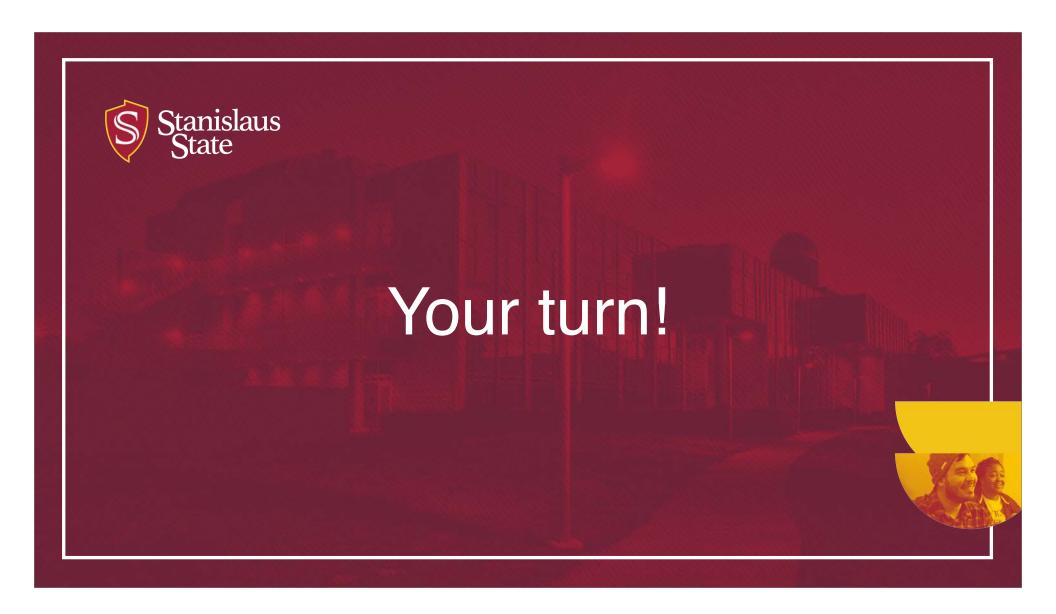
- Build your knowledge base
 - Search the literature; attend conferences
 - What works at other institutions with similar students and needs?
 - What doesn't work? Can you fix it?
- Study the Clearinghouse
 - Be creative when searching
- Study previous awards
 - Abstracts are posted for all awardees



Get real

- Don't promise too much
 - Can you describe your proposal in an elevator pitch?
 - Can your institution fully implement the proposed activities?
 - Are your outcome targets attainable?







- Who's your A-team?
 - Whose participation is critical?
- What are your priorities?
 - Does your proposal align with your strategic plan?
 - What are your students' most urgent needs?
- What data do you need?
 - What are your existing data sources?
 - Are new sources needed?
- What will you propose?
 - What programs and services would you like to see?
 - How will you engage students?
 - How will you know if the program works?



Thank you!

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