

STEM Center Program Review

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A. Program Information

P a M S a e e

1. Please enter your mission statement here.

P a L e e S d e A e a O c e

2. Please list the program-level student area outcomes.

B. STEM Center Usage Rates Mirrors the College

The chart below shows the rate of STEM Center usage by select student groups by quarter for 2017-18.

	Fall	Winter	Spring
Black	4%, 71	4%, 68	4%, 64
Latinx	25%, 441	25%, 426	24%, 384
Native American	0%, 0	0%, 0	1%, 16
Filipinx	5%, 88	4%, 68	4%, 64
Pacific Islander	1%, 18	1%, 17	1%, 16
Disability Resource Center	6%, 106	6%, 102	5%, 80
Veterans Resource Center	2%, 35	2%, 34	2%, 32

The chart below shows the rate of STEM Center usage by select student groups by quarter for 2018-19.

	Fall	Winter	Spring
Black	4%, 64	4%, 46	3%, 31
Latinx	28%, 450	20%, 228	21%, 218
Native American	0%, 0	0%, 0	0%, 0
Filipinx	4%, 64	3%, 34	3%, 31
Pacific Islander	1%, 16	0%, 0	1%, 10
Disability Resource Center	6%, 96	6%, 68	5%, 52
Veterans Resource Center	2%, 32	2%, 23	2%, 21

The chart below shows the rate of STEM Center usage by select student groups by quarter for 2019-20.

	Fall	Winter	Spring
Black	4%, 32	3%, 26	N/A
Latinx	22%, 177	28%, 241	N/A
Native American	0%, 0	0%, 0	N/A
Filipinx	4%, 32	4%, 34	N/A
Pacific Islander	2%, 16	1%, 9	N/A
Disability Resource Center	11%, 89	11%, 95	N/A
Veterans Resource Center	2%, 16	2%, 17	N/A

The chart below shows the rate of STEM Center usage by select student groups by quarter for 2020-21.

	Fall	Winter	Spring
Black	5%, 30	5%, 35	7%, 38
Latinx	27%, 162	26%, 180	22%, 119
Native American	1%, 6	1%, 7	1%, 5
Filipinx	2%, 12	5%, 35	3%, 16
Pacific Islander	2%, 12	1%, 7	1%, 5
Disability Resource Center	9%, 54	8%, 56	8%, 43
Veterans Resource Center	3%, 18	3%, 21	3%, 16

The chart below shows the rate of STEM Center usage by select student groups by quarter for 2021-22.

	Fall	Winter	Spring
Black	6%, 29	6%, 23	6%, 27
Latinx	31%, 149	25%, 96	21%, 94
Native American	0%, 0	1%, 4	0%, 0
Filipinx	3%, 14	4%, 15	2%, 9
Pacific Islander	1%, 5	0%, 0	1%, 4
Disability Resource Center	10%, 48	13%, 50	15%, 67
Veterans Resource Center	3%, 14	3%, 11	3%, 13

3. What do you observe in the data? What do you want the college to understand about your program and the data?

At the top level, we can take pride in these numbers. In each area where the college shows disproportionate impact, the STEM center served an equal or larger percentage of students each year than the college as a whole. Our percentage of VRC and DRC students is two to three times the college as a whole, This is a success, as it suggests that we are helping to close the equity gap, rather than serving only students who know how to do college or would succeed with or without our asFMM

4. Describe the proposed actions or next steps to maintain or improve the data by student group.

5. What does your program need to execute this action plan?

### C. Foothill Connect student referrals accessing STEM Center

The chart below shows the rate of Foothill Connect referrals accessing the STEM Center in 2017-18.

	Fall	Winter	Spring
Foothill Connect Referrals	47%, 57	28%, 53	30%, 44

The chart below shows the rate of Foothill Connect referrals accessing the STEM Center in 2018-19.

	Fall	Winter	Spring
Foothill Connect Referrals	37%, 88	20%, 27	15%, 40

The chart below shows the rate of Foothill Connect referrals accessing the STEM Center in 2019-20.

	Fall	Winter	Spring
Foothill Connect Referrals	8%, 26	20%, 37	N/A (No data)

The chart below shows the rate of Foothill Connect referrals accessing the STEM Center in 2020-21.

	Fall	Winter	Spring
Foothill Connect Referrals	8%, 15	7%, 18	7%, 9

The chart below shows the rate of Foothill Connect referrals accessing the STEM Center in 2021-22.

	Fall	Winter	Spring
Foothill Connect Referrals	17%, 28	9%, 11	31%, 19

6. What do you observe in the data? What do you want the college to understand about your program and the data?



7. Describe the proposed actions or next steps to maintain or improve the data.

8. What does your program need to execute this action plan?

### D. Frequent use of the STEM Center leads to higher course success.

The chart below shows the rate of course success for students visiting the STEM Center more than once.

	2017-18	2018-19	2019-20	2020-21	2021-22
Success	82%, 1,707	82%, 1,152	84%, 586	87%, 411	85%, 510
Non Success	10%, 208	10%, 141	7%, 49	5%, 23	7%, 42
Withdrew	8%, 167	8%, 112	9%, 8	8%, 38	8%, 48
Total	100%, 2,082	100%, 1,405	100%, 698	100%, 473	100%, 600

The chart below shows the rate of course success for students who visit the STEM Center once.

	2017-18	2018-19	2019-20	2020-21	2021-22
Success	81%, 799	80%, 792	83%, 479	85%, 699	84%, 281
Non Success	10%, 99	11%, 109	9%, 52	6%, 49	7%, 23
Withdrew	8%, 79	9%, 89	9%, 52	9%, 74	9%, 30
Total	100%, 976	100%, 990	100%, 577	100%, 822	100%, 334

9. What do you observe in the data? What do you want the college to understand about your program?

Students who visit the STEM Center more than once show a success rate of one to six points higher than the overall campus population. As we dig deeper, we find that this benefit holds true for each disproportionately impacted subgroup, including (for 2021-22) Black +11pts., Latinx +3 pts., Pacific Islander +31 pts. (low n), Female +4 pts., DRC +1pt, VRC +4pts. While it is difficult to rule out selection bias in a tutoring center, the breadth of differential success suggests that our service is having a great impact. Again the fact that Latinx students see a lower benefit than other ethnic subgroups jumps out as a red flag.

10. Describe the proposed actions or next steps to maintain or improve the data by student group.

1. Share these results with faculty and students in an effort to encourage even more participation from disproportionately impacted subgroups.
2. Work with STEM instructors to create added value for students visiting the STEM center. tgÆ

11. What does your program need to execute this action plan?

## E. Service Area Objective Addendum

1. What are the service area outcomes & strategic objectives for the coming year?

2. What is your implementation plan for the above-mentioned objectives?

3. What barriers has the program faced in implementing improvements?

F. Enrollment Trends: NCBS 405

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5. What actions does your program plan to take?

6. What does your program need to execute this action plan?

G. Enrollment by Student Demographics: NCBS 405

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	2017-18	2018-19	2019-20	2020-21	2021-22
Female	48%, 2,517	44%, 1,716			





We have an internal plan to make progress. We also need campus and district support to spend the Measure G money that has been allocated to update the 4200 building, to support extended hours so the students can see the STEM Center as their study home, and to fund an outreach employee to work with Foothill Connect and other groups on campus.

## I. Rubric

Click on the link below to view the STEM Center Rubric.

[https://foothilldeanza-my.sharepoint.com/:w:/g/personal/20078222\\_fhda\\_edu/EdNu76tFkkdBj3pDe4nm98EB8wEFqrOaQOWqMvLirxI0Ew?e=fIUQTK](https://foothilldeanza-my.sharepoint.com/:w:/g/personal/20078222_fhda_edu/EdNu76tFkkdBj3pDe4nm98EB8wEFqrOaQOWqMvLirxI0Ew?e=fIUQTK)

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This form is completed and ready for acceptance.

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