1. Assessment Plan - Three Column



PIE - Natural Sciences: STEM Unit PIE

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
Provide quality programs - Offer adequate academic support for STEM gate keeper courses per sections offered. Status: Active Goal Year(s): 2018-19, 2019-20, 2020- 21	targeted courses: either STEM entry level courses with high failure rates or gatekeeper courses into STEM	

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
	how would you measure it?: STEM students in coaching versus STEM students not in coaching per subject and by term. Type of Request: STAFFING: Requests for permanent employee positions or temporary/hourly employees. Planning Unit Priority: High On-Going Funding Requested (if applicable): 75000 Related Documents: STEM.success.2017-18.xlsx	
Persistence - To increase persistence of STEM students Status: Active Goal Year(s): 2018-19, 2019-20, 2020- 21	Request - Full Funding Requested - Full time Program Specialist staffing in STEM center while the center operates. *Describe Plans & Activities Supported (Justification of Need): Program specialists are required to provide necessary staffing and support to STEM center activities and services during operational hours, which are M T W Th 9 AM to 9 PM and Friday 9 AM to 5 PM. These hours are required, as we have STEM classes M T W Th F Sa, and students need a space to study with their peers and coaches and models/ slides/ other class resources. We find that students come into the center from other campus areas after those area close for the day. We need staffing to	

keep the doors open and provide services to students, such as

scheduling counseling appointments, and checking out equipment to students for in-center use. Program specialists also support coordination

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the	
		Loop on Goals and Resources	
	of STEM center events, from		
	marketing, enrollment, and		
	scheduling. Program specialists also		
	assist in inter-campus		
	communication of STEM events and		
	services.		
	*Lead: Dr. James Reed		
	What would success look like and how would you measure it?: STEM		
	center use would be correlated with		
	increased persistence in STEM		
	pathways or courses. We already see		
	that students who use the STEM		
	center more than three hours are		
	more likely to persist in STEM		
	courses.		
	Type of Request: STAFFING: Requests		
	for permanent employee positions or		
	temporary/hourly employees.		
	Planning Unit Priority: High		
	On-Going Funding Requested (if		
	applicable): 80000		
	Related Documents:		
	Stem.persistence.2017-18.xlsx		
STEM Inreach - To increase STEM	Request - Full Funding Requested -		
experiences and mentorship to	Increased and ADA accessible STEM		
students campus-wide.	center space.		
Status: Active	*Describe Plans & Activities		
Goal Year(s): 2018-19, 2019-20, 2020-			
21	STEM center space is limited; a		
	larger space will allow us to perform		
	multiple types of activities, such as		
	student study space, student		
	coaching, and student engagement/ interaction activities without		
	stopping other activities. The STEM		
	center would like to continuously		
	center would like to continuously		

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remain open for student study while performing other functions. The

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STEM center has been at capacity many times during the semester. Most importantly, the facility is not completely ADA accessible. We are on floor 3 of a building where the only access is via a single elevator or stairs. When the elevator is down, there is NO ADA access.

Planned activities to run simultaneously with student study are: Workshops, speaker series, STEM field trips, STEM on-campus publicity (tables, student events), Pi (3/14) day celebration.

Activities are designed to provide the following types of academic support, mentoring, and exposures: 1. academic planning- learning to STEM,

2. academic support- resume, cv and internship/ summer research application support,

workshops on specific STEM topics
workshops or panels with STEM professionals

5. informal meetings with STEM mentors or professionals

6. STEM engagement opportunities on campus (tabling, inreach to centers, Pi Day in STEM center)

7. STEM clubs and organizations - information disbursement to STEM

community

8. End of year STEM celebrations-

transfer/ graduation

information

9. STEM center dissemination of

campus STEM-related activities and

		1. Where We Make an Impact: Closing the
Unit Goals	Resources Needed	
		Loop on Goals and Resources
	10. STEM faculty visibility in STEM	
	center	
	11. STEM field trips *Lead: Dr. James Reed and Dr. Beta	
	Meyer	
	What would success look like and	
	how would you measure it?: Ability	
	to hold more simultaneous activities.	
	Ability to increase current offerings.	
	Ability to service students with	
	wheelchair and mobility restrictions.	
	Type of Request: FACILITIES: This section includes minor building	
	improvement projects and alterations	
	to specific rooms or operational	
	areas.	
	Planning Unit Priority: High	
	One-Time Funding Requested (if	
	applicable): 700000	
	Related Documents:	
	Boot camp 2 W 2019.jpg	
	Boot camp W2019.jpg	
	CSUF RAISE field trip April 2019.jpg	
	Kepler Dinner.PNG	
	Mountie Mentor Women in	
	<u>STEM.jpg</u>	
	RAISE interview workshop.jpg	
	STEM.center.use1.jpg	
	STEM.center.use2.jpg	
	STEM.center.use3.jpg	
	STEM.center.use4.jpg	
	STEM.center.use5.jpg	
	Women in Science 2.jpg	
	Women in Science.jpg	
	Request - Full Funding Requested -	
	Funds to provide food for STEM	
	events, and for field trips to STEM	
	locations allowing interaction with	

STEM professionals (\$20,000) *Describe Plans & Activities Supported (Justification of Need):

End of year STEM celebrations (transfer, graduation). STEM field trips to industry and other STEM

engagement activities (JPL, Science center, etc).

*Lead: Dr. James Reed and Dr. Beta Meyer

What would success look like and how would you measure it?:

Attendance at event (graduation celebration, field trip), exit survey showing satisfaction with program and STEM experience.

Type of Request: MARKETING:

Requests for services in the areas of graphic design, news, and photography, posting information, communication and social media.

Planning Unit Priority: Medium

On-Going Funding Requested (if applicable): 20000

Related Documents:

CSUF RAISE field trip April 2019.jpg

Kepler Dinner.PNG

Mountie Mentor Women in STEM.jpg

Women in Science 2.jpg

Women in Science.jpg

Request - Full Funding Requested -

Funds for STEM promotional/ branding materials/ advertising to increase visibility of STEM student activities (robotics, research, clubs) and STEM major pathways. (\$5000) *Describe Plans & Activities Supported (Justification of Need):

Materials that demonstrate STEM achievements, experiences and opportunities to increase visibility of these to all STEM students and students considering STEM on campus. Materials can also be used to accomplish part of our Outreach goals; see Outreach.

*Lead: Dr. James Reed and Dr. Beta Meyer

What would success look like and how would you measure it?:

Documentation of campus student participation on STEM related experiences and activities. Capability to peer mentor incoming and newer STEM students, Materials showing student success in STEM can be disseminated across campus to Equity centers and to students at tabling events and to Division chairs as well as to incoming students (see Outreach goal #1; funding here will support part of that goal). Success: Goal to have documentation annually that can be used to show great STEM experiences our students have in STEM distributed campus wide and for recruiting purposes. Type of Request: MARKETING: Requests for services in the areas of graphic design, news, and photography, posting information, communication and social media. Planning Unit Priority: High **On-Going Funding Requested (if** applicable): 5000 **Request - Full Funding Requested -**

We need more tables and chairs for student study. We need new lounge

furniture for students eating or relaxing. We need new cabinetry and storage space for models, texts, and office equipment.

*Describe Plans & Activities Supported (Justification of Need): Our student area was filled with old recycled equipment for storage, student seating and table surfaces from the start. We continue to acquire discarded salvage seating, tables, and shelving. Most was discarded for a reason, and the total is insufficient to completely satisfy the needs of the students and staff in the STEM center. We plan to have furniture that can support up to 100 students at a time, and tables and chairs that are safe and do not break. We plan to have shelving and storage adequate to hold all of our resources and academic materials. We plan to have safe and adequate study apces when these changes are made. *Lead: Dr. James Reed What would success look like and

how would you measure it?: Ability to seat up to 100 simultaneously with writing and study space. Ability to store all of our academic resources and STEM center materials.

Type of Request: NON

INSTRUCTIONAL EQUIPMENT: Tangible property with useful life of more than one year, other than land or buildings improvements, equal and over \$500 per individual item. Used for administrative or noninstructional purposes.

Unit Goals	Resources Needed	1. Where We Make an Impact: Closing the Loop on Goals and Resources
	Planning Unit Priority: High One-Time Funding Requested (if applicable): 30000	
STEM Outreach - Increase awareness of Mt.SAC STEM pathways at our feeder high schools. Increase awareness of our STEM center, resources and pathways in students entering Mt.SAC. Status: Active Goal Year(s): 2019-20, 2020-21	Request - Partial Funding Requested - Video to describe the various Mt.SAC STEM pathways and *Describe Plans & Activities Supported (Justification of Need): Communications with high school counselors about STEM pathways. Work with high school outreach to determine the most effective means of reaching and recruiting students into our STEM pathways. Work with STEM departments to determine what to highlight. *Lead: James Reed What would success look like and how would you measure it?: Successful production of a video that highlights Mt. SAC STEM pathways. Successful linkage of the video to the STEM website. Use of the video at STEP and at local high school outreach. Co-programming with high school outreach to inform of STEM opportunities. Type of Request: MARKETING: Requests for services in the areas of graphic design, news, and photography, posting information, communication and social media. Planning Unit Priority: Medium One-Time Funding Requested (if applicable): 1000	