

Sixth Annual AIMS²(HSI-STEM Grant) Advisory Committee Meeting Meeting # 54



CSUN
June 15, 2017



AGENDA

12 Noon	Luncheon
12:45 PM	Welcome and Introductions – External Advisory Committee
12:55 PM	Overview of grant <ul style="list-style-type: none">• Program News and Year 6 Activities– Ramesh
1:05 PM	Perspectives from recent AIMS ² graduate
1:15 PM	Project Evaluation and Progress to date – Nathan Durdella
2:00 PM	Project Activities/Academic Progress of Cohorts <ul style="list-style-type: none">• Glendale Community College – Scott Rubke, and Marisela Canela• College of the Canyons – Amy Foote and David Martinez• Moorpark College – Scarlet Relle and Mary Rees• LA Pierce College – Elizabeth Cheung and Margaret Wessling• CSUN – Bob Ryan
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Goals and Objectives – 2011 Grant

- To increase the number of Hispanic and low-income students who successfully transfer from Glendale Community College (GCC), and College of the Canyons (COC) to California State University, Northridge, to pursue majors in Engineering and/or Computer Science.
- To increase the number of Hispanic and low-income students who join CSUN as upper division transfer students and graduate with degrees from one of the undergraduate programs in the College of Engineering and Computer Science.
- To develop a model, seamless and sustainable transfer program to assist Hispanic and low-income students to successfully transfer from GCC and COC to California State University, Northridge where they will complete their studies in Engineering and/or Computer Science.



The AIMS² Project - \$ 5.5 Million Grant from USDE (2011-16) Attract, Inspire, Mentor, and Support Students



**Faculty and Staff from the College of the Canyons, Glendale CC,
& the College of Engineering and Computer Science, CSUN**



- Cohort based model
- Collaboration between CSUN and CCC's
- High Transfer Achievement
- GPA, Persistence, and Graduation
- Served over 240 transfer students (approximately 67 % Latino/a).

For more information

Visit www.ecs.csun.edu/aims2



WHITE HOUSE INITIATIVE
on EDUCATIONAL EXCELLENCE for HISPANICS
25 Years of Fulfilling America's Future

2nd Annual Research Symposium

Sep 15, 2016





Budget Update

Year ▼	Proposed ▼	Awarded ▼	Difference ▼	% Difference ▼
Year 1	\$1,096,856	\$1,096,856	\$0	
Year 2	\$1,140,998	\$1,134,630	(\$6,368)	-0.56%
Year 3	\$1,132,511	\$1,128,888	(\$3,623)	-0.32%
Year 4	\$1,129,743	\$1,075,169	(\$54,574)	-4.83%
Year 5	\$1,062,659	\$1,003,681	(\$58,978)	-5.55%
To Date	\$5,562,767	\$5,439,224	(\$123,543)	-2.22%

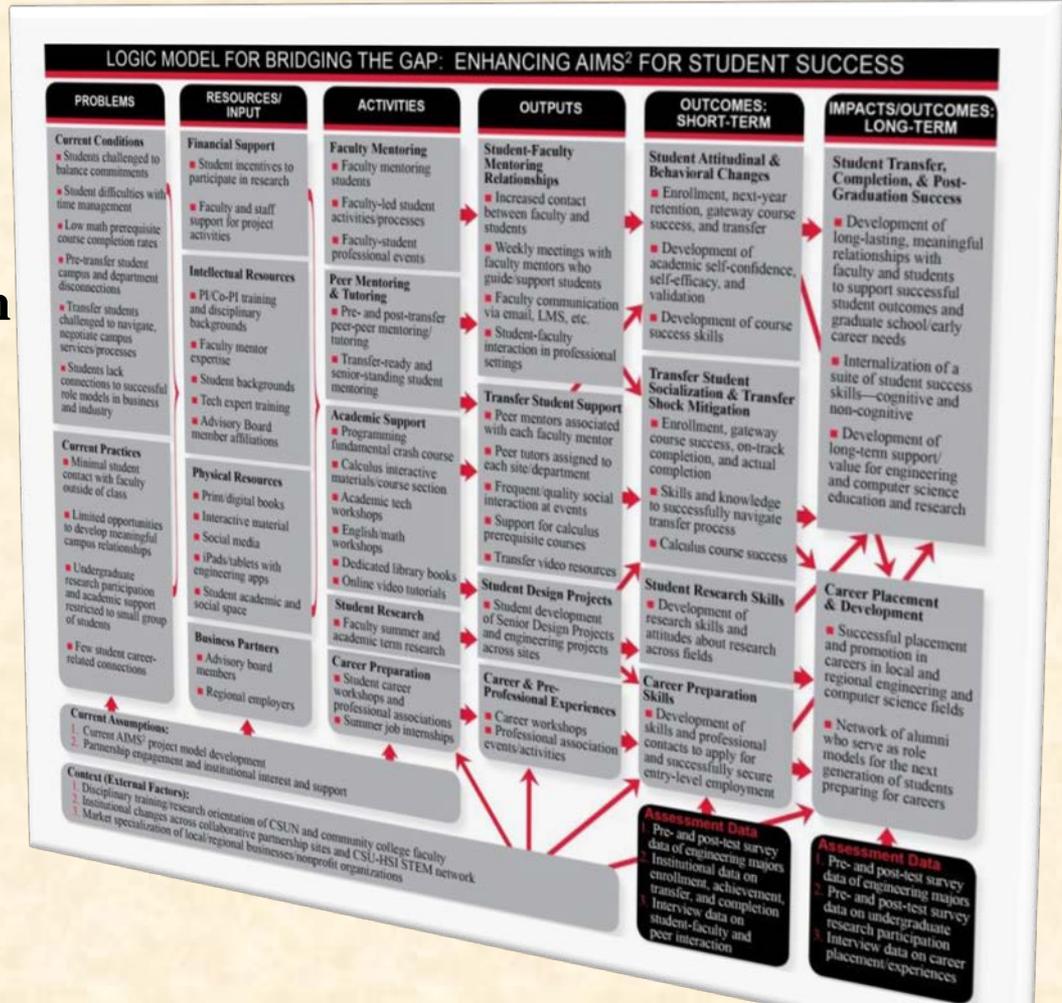


Budget Expended to date	\$4,980,441	91.57%
Encumbrance Committed	\$176,142	3.24%
Budget Available	\$282,641	5.20%
Total Allocated	\$5,439,224	

Sequel to AIMS²

“Bridging the Gap: Enhancing the AIMS² Program for Student Success” - (2016-2021)

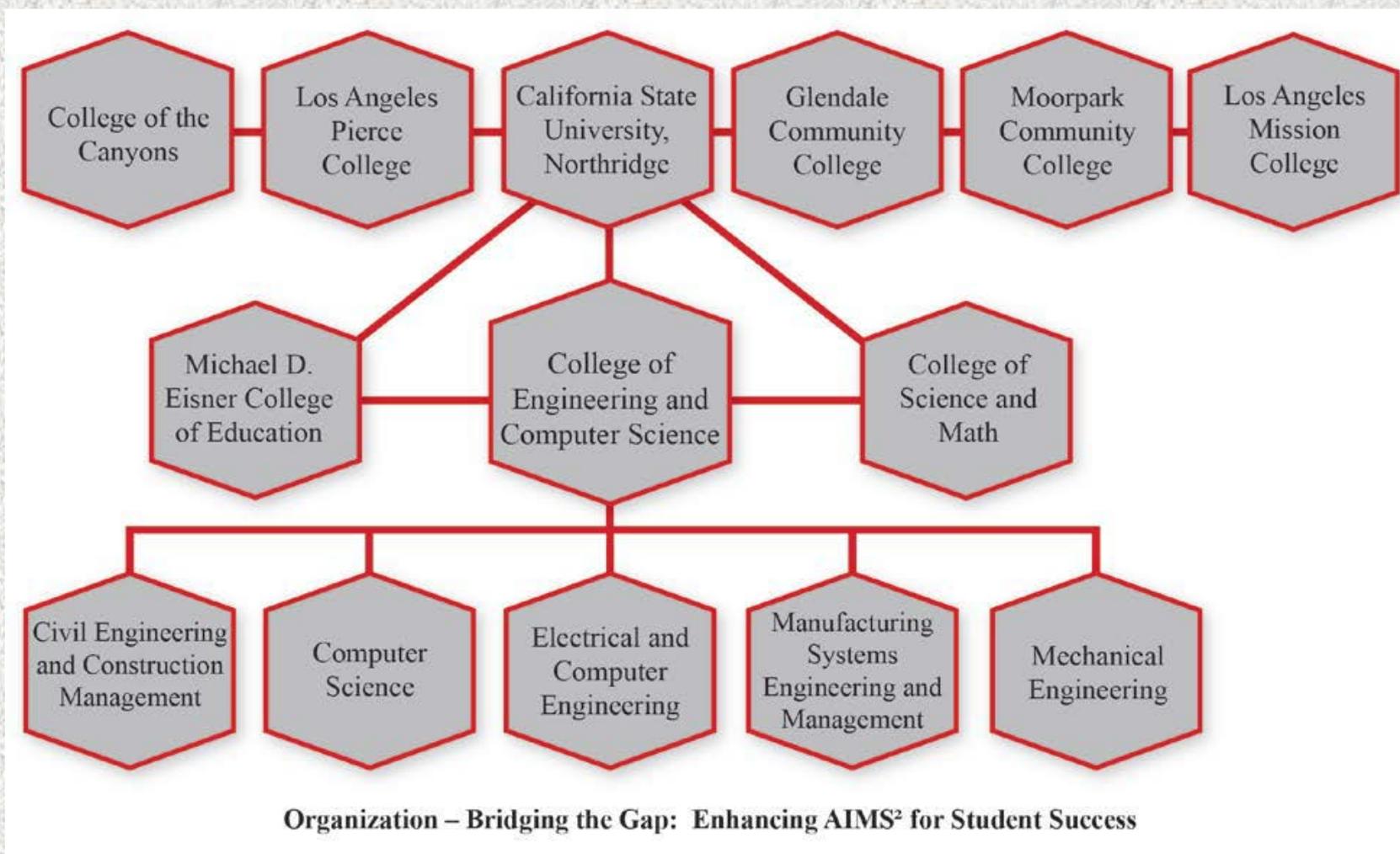
- Selected to receive funding under the **HISPANIC-SERVING INSTITUTIONS PROGRAM (STEM) (84.031C)**. This grant will be in the amount of **\$1,199,483.00** for the first budget period (10/01/2016 through 09/30/2017). It is anticipated that the grant will be for a total of **5 year(s)**.





Goals and Objectives – 2016 Grant

- Improve the academic achievement of Hispanic and low-income students in engineering and computer science fields.
- Enhance faculty and peer environments for Hispanic and low-income students in engineering and computer science fields.
- Improve the transfer of Hispanic and low-income students in engineering and computer science fields to baccalaureate-granting institutions.
- Improve career preparation of Hispanic and low-income students in engineering and computer science fields.
- Develop research skills of Hispanic and low-income students in engineering and computer science.
- Increase baccalaureate degree completion of Hispanic and low-income students in engineering and computer science fields.





Student Selection : CSUN

- To be eligible, STEM majors must be an individual who has faced or faces social, cultural educational or economic barriers to careers in STEM and be a US Citizen or Permanent Resident.
- Application including Essay and Interview
- Enroll and complete a minimum of 30 units/year and passing all courses with grades of C or better
- All students eligible to receive \$ 500 towards textbook awards annually upon meeting requirements
- Selected students eligible to participate in paid UG research activities (30-32/year)
- Tutors and Peer Mentors (Up to 10/year)



Column1	Year 1	Year 2	Year 3	Year 4	Year 5	Total funded over 5 Years
FTF	20	20	20	10		
Running Totals	20	40	60	70	70	260
FTT	30	30	30	30		
Running Totals	30	60	60	60	30	240
Annual	50	100	120	130	100	500

- Year 1 FTF cohort formed in Spring 2017, Year 2 FTF cohort to be formed in Fall 17
- Recruitment is by invitation to eligible FTF who join the College each Fall
- Year 2 FTT cohort to be formed in Fall 2017
- Invitations will be sent to eligible FTT who joined in 16-17 (Fall 16, Spring 17, Fall 17)



Major activities in AIMS² grant

- Tutoring
- Mentoring
- Undergraduate research



CSUN Project Activities

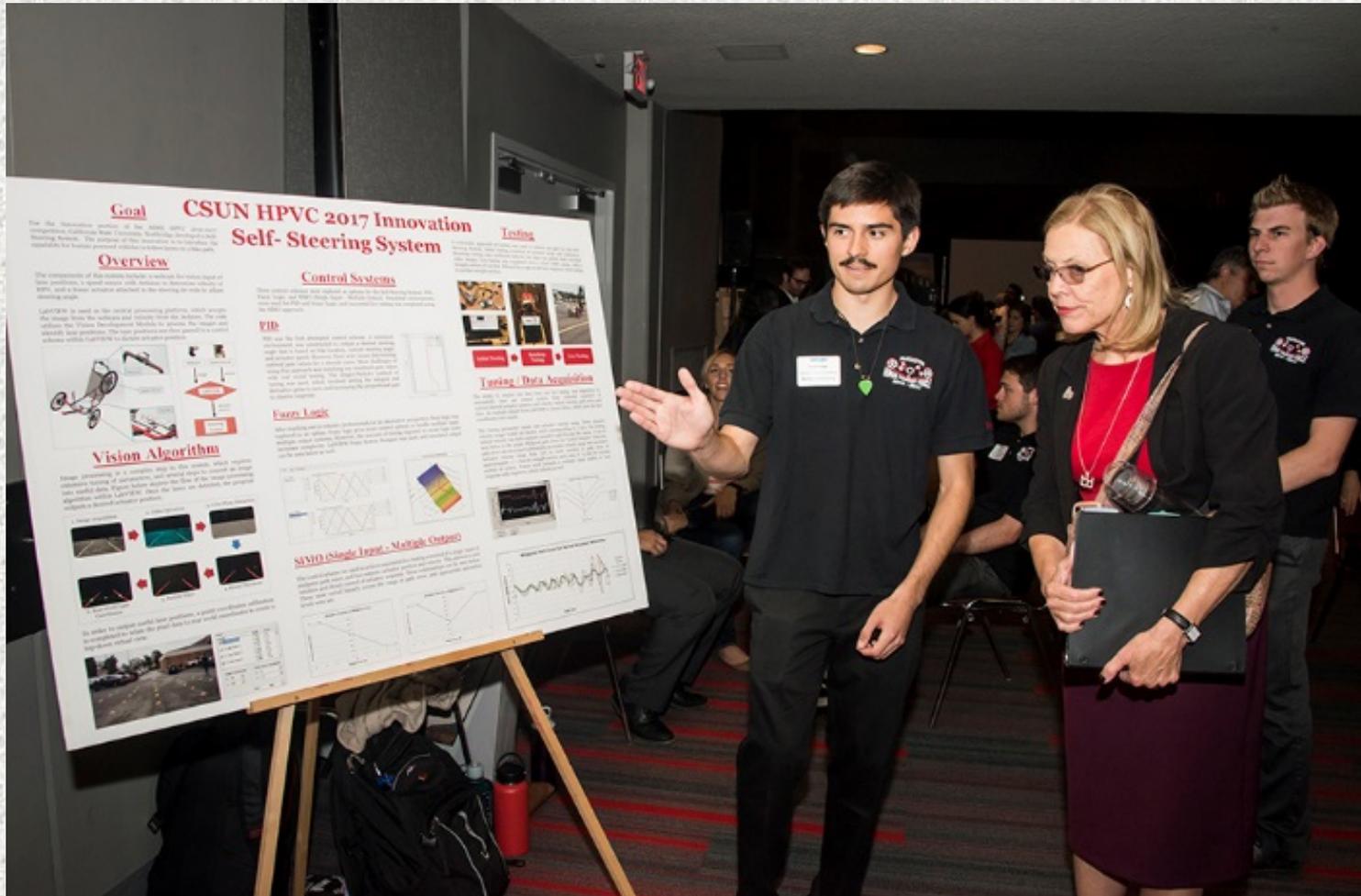
- **All the activities in the current AIMS² grant PLUS**
- Pilot and expand Calculus Lab (MATH 150 A/L)
- Summer UG research for selected students (up to 32 in Year 1)
- Early STEM program (Math Readiness) for entering freshmen (June 26 – Aug 2, 2017)
- Freshman orientation program for FTF in CECS (June 19 – 23, 2017)



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Introducing Scott Judge





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**CSUN College of Engineering and Computer Science
 2016 HSI-STEM/AIMS² Grant Project
 PROJECT ACTIVITIES SUMMARY FOR THE ADVISORY BOARD MEETING
 MOORPARK COLLEGE**

Objective Key: 1: Academic Achievement 2: Faculty and Peer Interaction 3: Transfer 4: Career Preparation 5: Research Skills 6: Degree Completion

Semester	Institution	Activity Name	Date	Objective	Summary Description
Spring 2017	Moorpark College	Team Building Activities	Biweekly meetings - 2 hours in duration: Jan 27th (1st meeting) Feb 10, 24, March 10, 24, April 7, 21 and May 5 (last meeting of the semester)	2	<p><u>Workshops in the following areas:</u> Counseling to help with developing an education plan Study skills Time management Stress identification and reduction Resume and cover letter writing</p> <p><u>Guest speakers from industry and academia:</u> Help students understand different engineering disciplines and occupations within the field and how their education can help them realize their dreams. Guest speakers can also serve as role models for some students and help them make some professional connections</p> <p><u>Field trips:</u> JPL (3/28/17) Students can see first-hand what some engineers do on the job and be inspired!</p> <p><u>Peer-tutoring and Review sessions:</u> After the hour long workshops mentioned above, students form groups and work on common subjects that they have difficulty with or need help with. For example, some groups work on statics problems, some work on chemistry problems, some work on algebra problems, some work on differential equation problems, some work on physics problems, etc. so in these groups</p>



					students help one another and the facilitator, namely Scarlet Relle, walks around and helps the students. This has been a very popular activity with the students. We plan on hiring a student tutor for these review sessions perhaps next semester.
		Research Opportunities		5	Students were informed of various summer research opportunities available at CSUN and were encouraged to join a CSUN team.
		Joining an Engineering Organization		4	Students were asked to join an engineering organization, such as ASME, IEEE, SWE, ASCE, etc. and attend at least one local meeting per semester and bring proof that they attended; for example, bring in the meeting agenda and summarize one of the activities or talks on the agenda for the cohort.
		Applying for Internship		4	Students were asked to use their resume writing and cover letter writing skills and apply for at least one engineering internship opportunity over the course of their involvement with the AIMS program. This is an important way for students to learn the practical aspects of engineering while going to school, gain some real world experience, learn some soft-skills, and enhance their resume so that they will have a better chance of finding a job once they graduate.
Future Plans – Fall 2017 Spring 2018	Moorpark College				<ul style="list-style-type: none"> ❖ Recruit new students to the AIMS program to replace the ones who have transferred to a university – (maintain the cohort at 25 students) ❖ Continue with Team-Building activities mentioned above: workshops, guest speakers, field trips, peer-tutoring ❖ Make sure students get academic advising from an engineering counselor ❖ Follow up on students summer research project and/or have students begin to work on an engineering project at Moorpark College and have a poster presentation at Moorpark College in the Spring of 2018 ❖ Take all the AIMS students to a local engineering organization meeting, such as ASME or IEEE and again encourage all of them to join an engineering organization if they have not yet done that ❖ Encourage students to apply for internships if they do not already have one ❖ Give students stipends for textbooks and other academic resources



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