

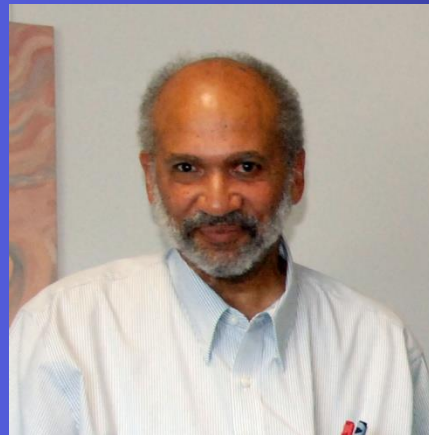
**A Research Partnership that Enhances Student
Transfer and Success in STEM:
The Bridges to the Baccalaureate Program at
San Diego Mesa College**

Academic Academy 2013
Academic Senate for California Community Colleges
San Diego, California, February 23, 2013

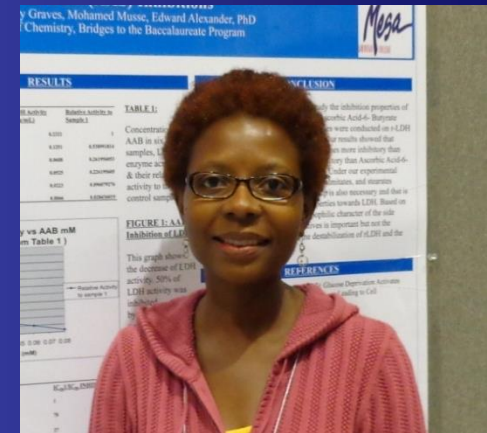
Bridges to the Baccalaureate Program at San Diego Mesa College



Jodi Corliss, M.S.
Office of Instruction
Program Coordinator



Edward Alexander, Ph.D.
Professor of Chemistry
Program Director and
Principal Investigator



Elaine Erickson
Education Technician

Presentation Plan for Today

1. San Diego Mesa College: Background, Demographics, and Student Transfer Record
2. The National Institutes of Health (NIH) Bridges to the Baccalaureate Grant
3. San Diego Mesa College: Bridges' Student Success and Achievements
4. San Diego Mesa College: Presentations by Bridges students: Alberto Palacios, Lidia Monjaras, and Tais Castellano

Opened in 1964

One of three colleges within the
San Diego Community College District

241 full-time faculty

Current Enrollment: 24,000 students



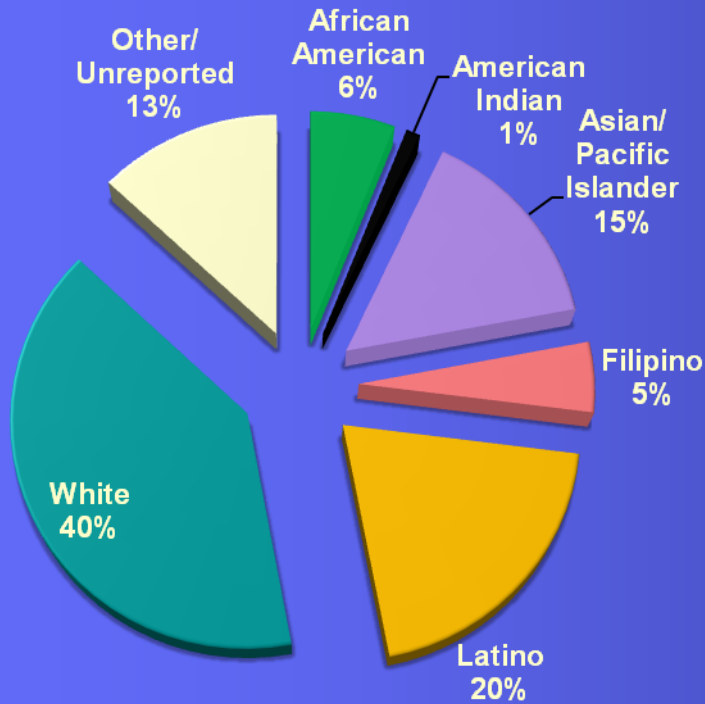
Mesa
SAN DIEGO COLLEGE

160 degree and
certificate programs

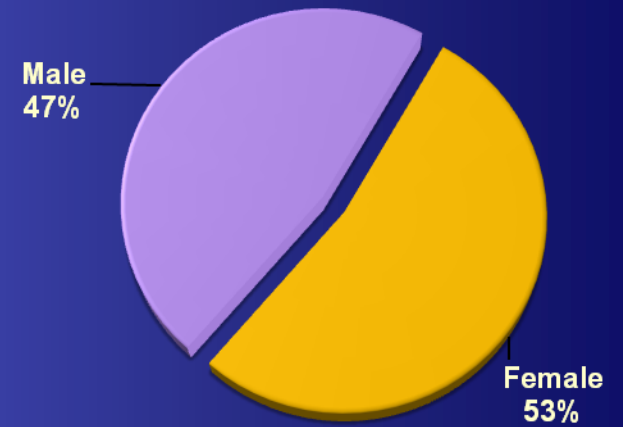
- Mission:
- * offer programs that lead to the AA or AS degree
 - * offer low-division courses that lead to transfer to four-year colleges and universities
 - * offer programs in career/technical education
 - * high-school outreach
 - * promote regional economic development

DEMOGRAPHICS OF STUDENT POPULATION – Fall 2008

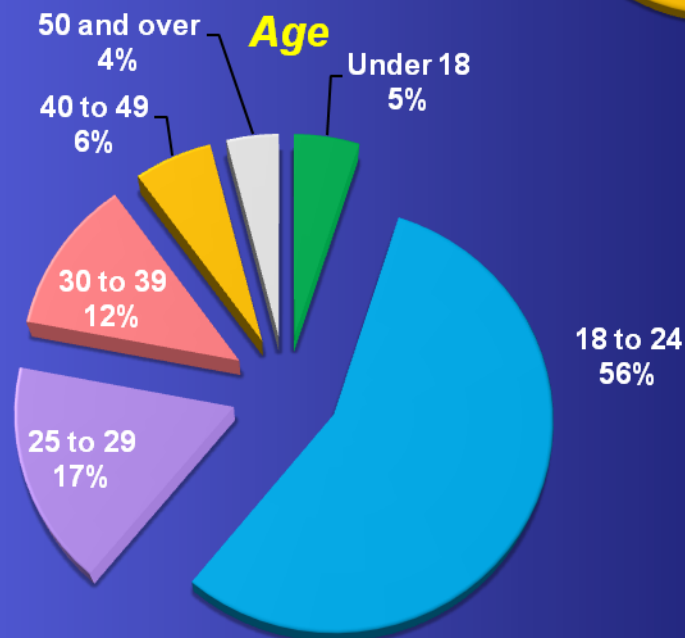
Ethnicity



Gender

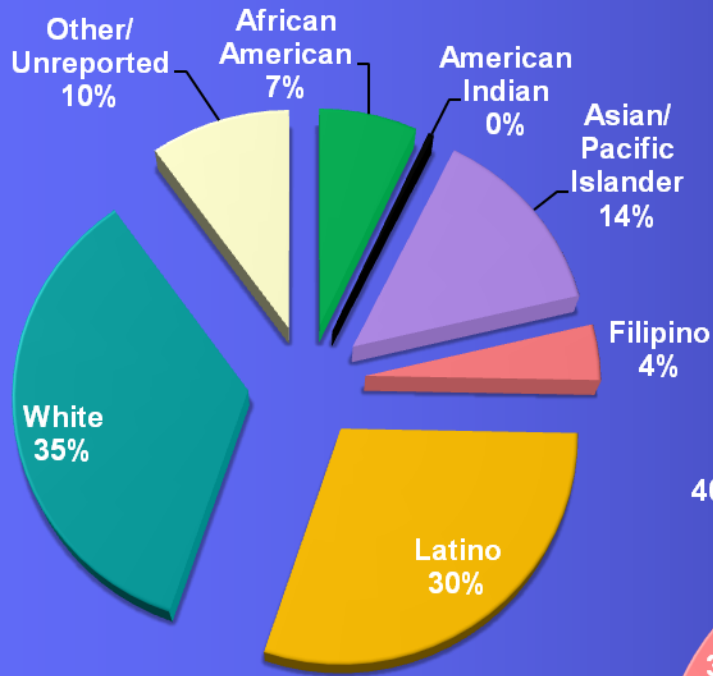


Age

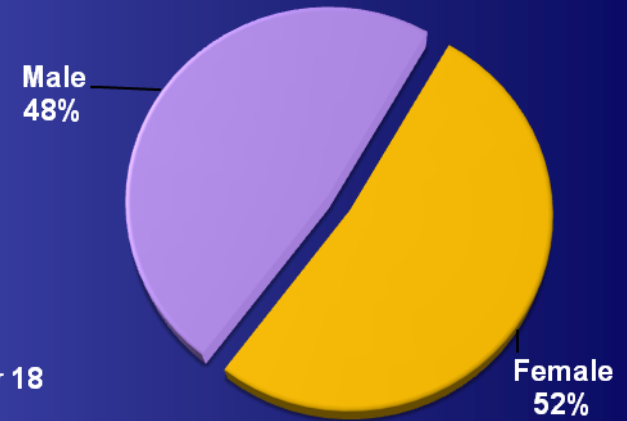


DEMOGRAPHICS OF STUDENT POPULATION – Fall 2012

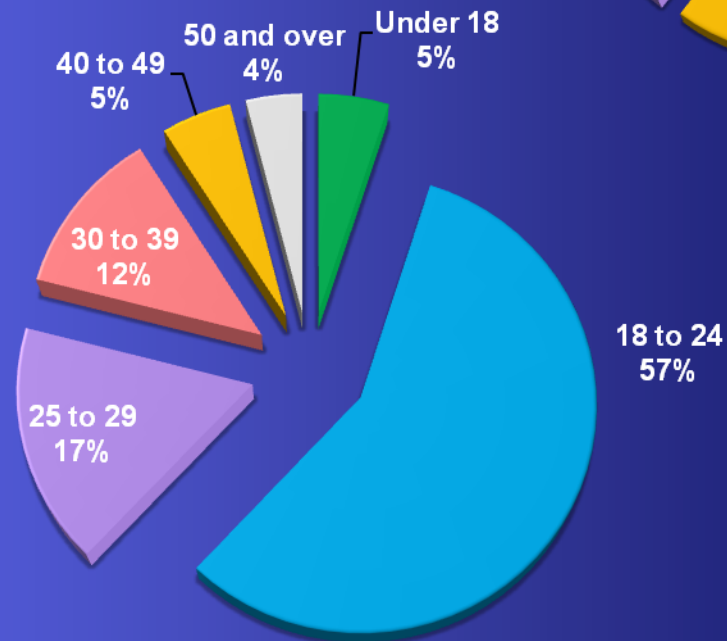
Ethnicity



Gender



Age



Successes of San Diego Mesa College in Transfer

Figure 1. Overall Transfer Volume for All Colleges and by College

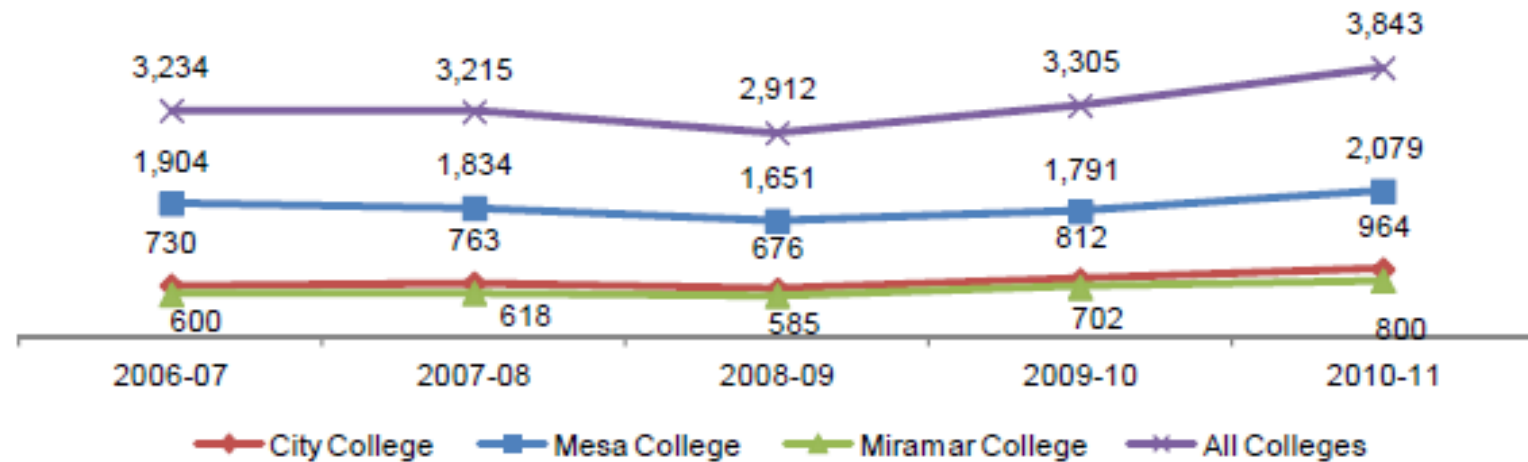


Table 1. Overall Transfer Volume for All Colleges and by College

	2006-07	2007-08	2008-09	2009-10	2010-11	% Change 06/07-10/11
City College	730	763	676	812	964	32%
Mesa College	1,904	1,834	1,651	1,791	2,079	9%
Miramar College	600	618	585	702	800	33%
All Colleges	3,234	3,215	2,912	3,305	3,843	19%

Source: SDOCD Information System

Successes of San Diego Mesa College in Transfer

Figure 4. Mesa College - Top Five 4-Year Transfer Institutions 2006-07 to 2010-11

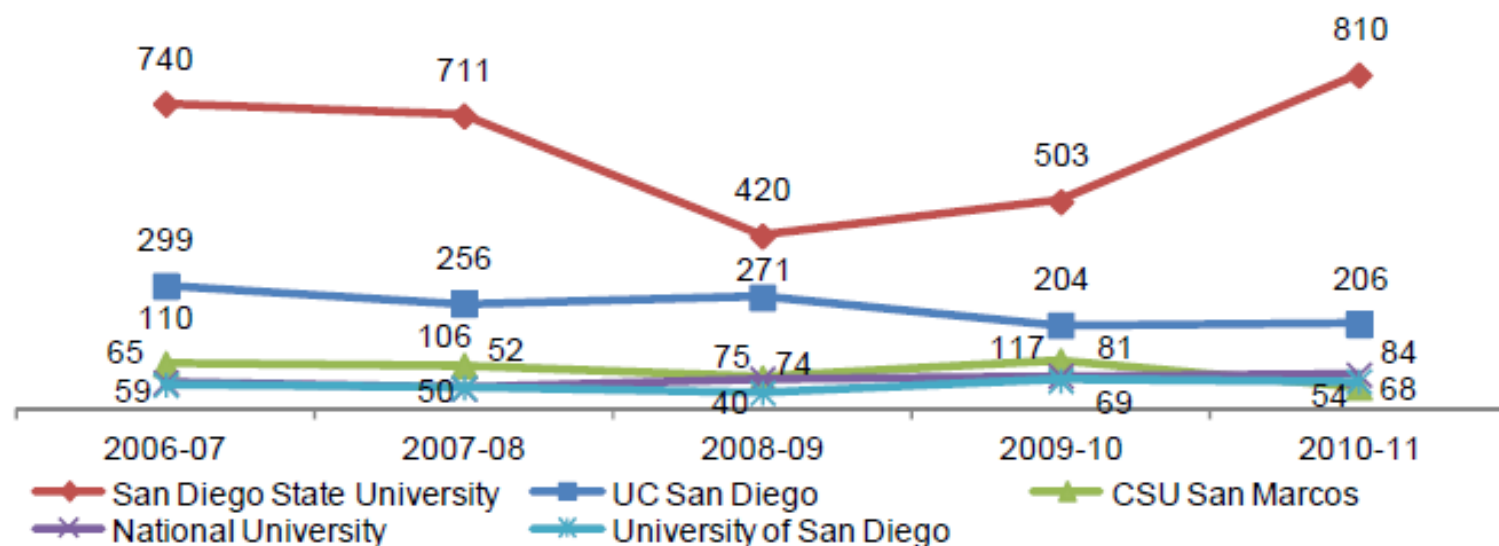


Table 6. Mesa College - Top Five 4-Year Transfer Institutions 2006-07 to 2010-11

	2006-07		2007-08		2008-09		2009-10		2010-11		% Change 06/07-10/11
San Diego State University	740	58%	711	61%	420	48%	503	52%	810	66%	9%
UC San Diego	299	23%	256	22%	271	31%	204	21%	206	17%	-31%
CSU San Marcos	110	9%	106	9%	75	9%	117	12%	54	4%	-51%
National University	65	5%	50	4%	74	8%	81	8%	84	7%	29%
University of San Diego	59	5%	52	4%	40	5%	69	7%	68	6%	15%
Total	1,273	100%	1,175	100%	880	100%	974	100%	1,222	100%	-4%

Source: SDOCD Information System

Successes of San Diego Mesa College in Transfer

$$\text{Transfer Rate} = \frac{\# \text{ of transfers}}{\text{initial cohort}} \times 100$$

Figure 6. Overall Transfer Rate by College

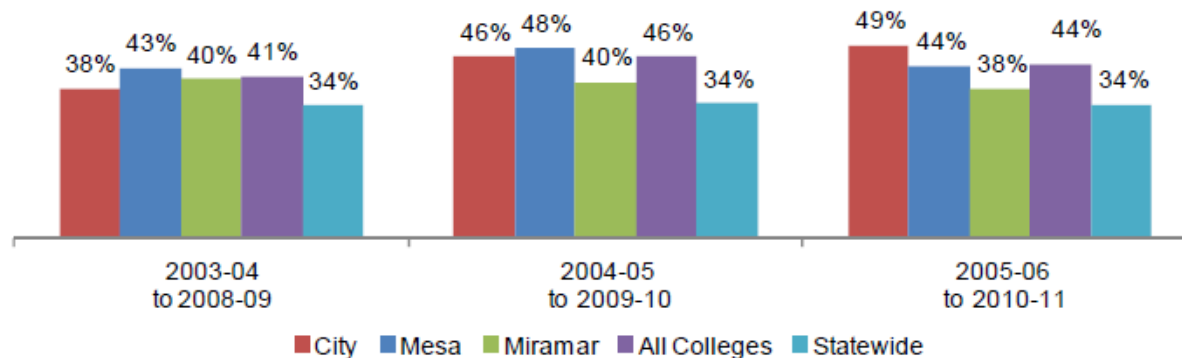


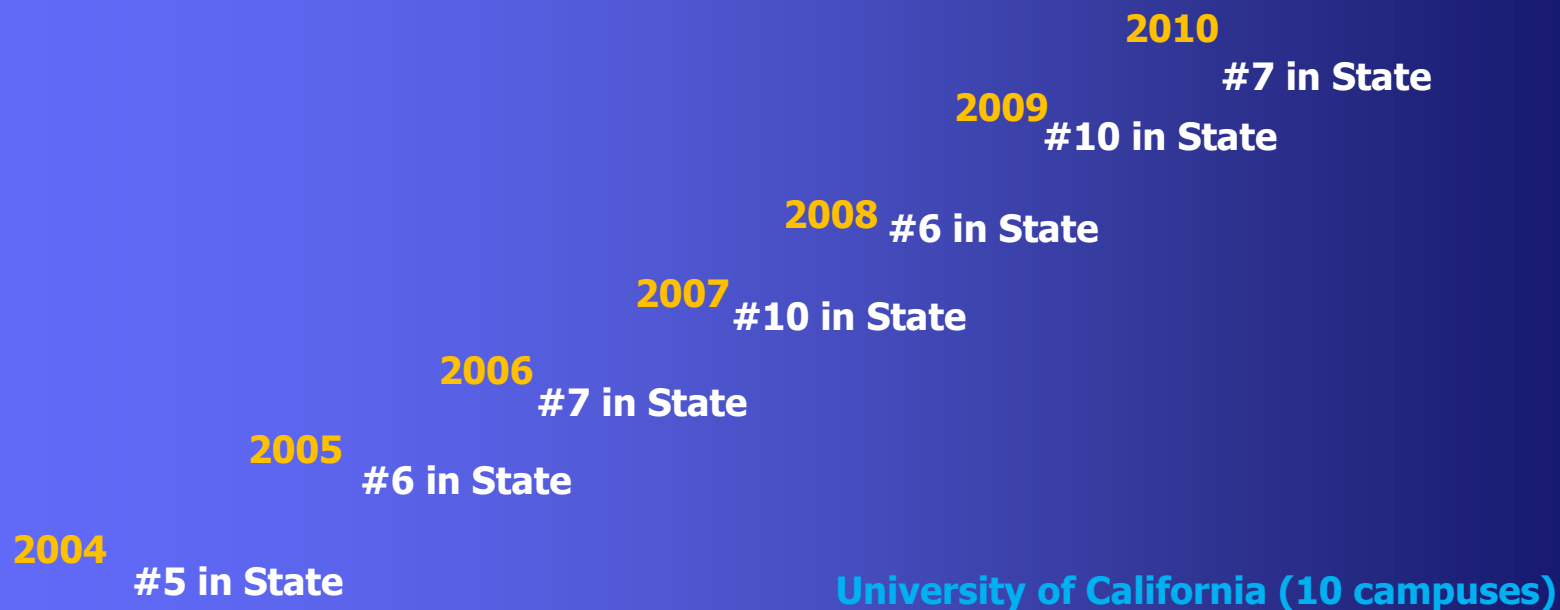
Table 14. Overall Transfer Rate by College

	Cohort									College Average 03/04 - 05/06
	2003-04 to 2008-09			2004-05 to 2009-10			2005-06 to 2010-11			
	Cohort	N	Percent	Cohort	N	Percent	Cohort	N	Percent	
City	1,356	513	38%	1,504	690	46%	1,500	730	49%	44%
Mesa	2,233	965	43%	2,484	1,189	48%	2,164	941	44%	45%
Miramar	938	377	40%	910	359	40%	937	355	38%	39%
All Colleges	4,275	1,743	41%	4,645	2,132	46%	4,402	1,934	44%	44%
Statewide			34%			34%			34%	34%

Source: Chancellor Office MIS

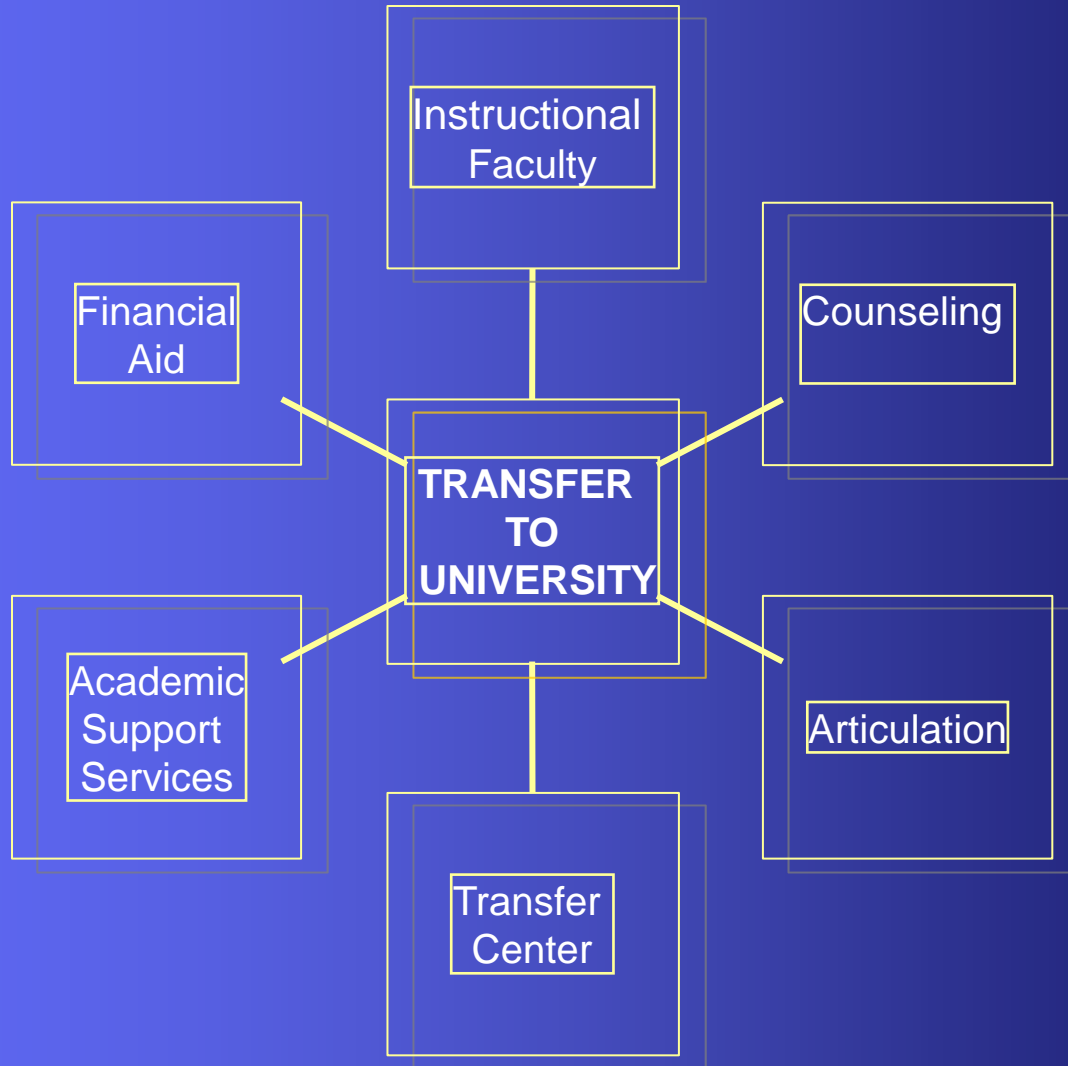
Successes of San Diego Mesa College in Transfer

Transfer Ranking in STEM Disciplines*: Relative to all 112 CCC's



Source: California Post Secondary Education Commission (CPEC), February , 2013

Mechanisms for Successful Transfer





Transfer Programs



**San Diego Mesa College
Transfer Center**

HONORS ADMISSIONS PROGRAMS

In addition to the Transfer programs, the following Honors Transfer Agreements are also available. Please see the Honors Program, Room G-301, for more details.

[UCLA – TAP](#)

Transfer Alliance Program -
The TAP guarantees priority consideration for admission to the College of Letters and Science in addition to other benefits.

[UC Irvine](#)

Community College Honors Transfer Program -
This program provides priority consideration for admission in addition to other benefits.

[Pomona College – PATH](#)

Pomona Agreement for Transfer Honors -
PATH provides priority consideration for admission to the college in addition to other benefits.

[Occidental College](#)

Preferred Admission Agreement -
Preferred consideration for admission in addition to other benefits.

[UC Santa Cruz](#)

Guaranteed Priority Admission -
Guaranteed priority admission consideration in addition to other benefits.

[UC Riverside – HART](#)

Honors Alliance for Riverside Transfers -
Guaranteed admission to the university in addition to other benefits.

[Chapman University – PACT](#)

Priority Access for Chapman Transfer -
Guaranteed admission to the university in addition to other benefits.



GUARANTEE ADMISSIONS PROGRAMS

Transfer programs are designed to make transitioning from a community college to a 4-year university easier. There may be additional requirements for each of these programs/agreements. Please be sure to visit the Counseling Office in I-430 or Transfer Center in I3-202 for additional details. For major preparation coursework, visit assist.org.

UC Davis – TAG

What is it? Transfer Admission Guarantee. Guaranteed admission to UCD and the major for the College of Agriculture and the College of Letters and Sciences.

What to do? Students should focus on completing major preparation courses before completing IGETC.

Who to see? The Transfer Center coordinator to sign contract.

When to do it? For Fall transfer: September 1st—30th

UC Irvine – TAG

What is it? Transfer Admission Guarantee. On-the-spot provisional admission to well-qualified students to UCI for all majors except Arts and Humanities, Dance and Music. Some majors are more selective.

What to do? Students should focus on completing major preparation courses before completing IGETC.

Who to see? Meet with a UCI representative.

When to do it? For Fall transfer: Oct. 15th—Nov. 30th

UC Riverside – TAG

What is it? Transfer Admission Guarantee. Guaranteed admission to UCR for the College of Natural and Agricultural Sciences, College of Humanities, Arts, and Social Sciences except Business Administration and Art (Studio). Some majors are more selective.

What to do? Students should focus on completing major preparation courses before completing IGETC.

Who to see? UC Riverside's Transfer and Re-entry Services.

When to do it?
For Fall, Winter, or Spring transfer: by November 30th

UC Santa Barbara – TAG

What is it? Transfer Admission Guarantee. The TAG assures general admissions to UCSB for the College of Engineering, College of Letters and Science except BA in Computer Science, Dance, BGA, Music.

What to do? Go to www.assist.org, for institution choose UCSB, for agreements choose on San Diego Mesa College, and for majors choose TAG for the agreement.

Who to see? There is no contract to sign. Indicate UCSB TAG on UC application.

When to do it? During UC filing period indicate UCSB TAG on application.

UC Santa Cruz – TAG

What is it? Transfer Admission Guarantee. The TAG program offers guaranteed admission to UCSC but no guarantee to a major.

What to do? Students should focus on completing major preparation courses before completing IGETC.

Who to see? The Transfer Center coordinator to sign contract.

When to do it? For Fall transfer: August 1st—October 15th

UC San Diego – TAG

What is it? Transfer Admission Guarantee. Guarantees admission to UCSD and the college of your choice upon completion of all program requirements. It does not guarantee admission to a particular major.

What to do? Attend a UCSD TAG informational workshop. It is required for students interested in this program. Contact the Transfer Center to sign up for a workshop.

Who to see? Transfer Center for information and your counselor to sign the UCSD TAG contract.

When to do it? For Fall transfer: by September 23rd
For Winter transfer: by May 23rd
For Spring transfer: by August 23rd

Humboldt State University – TAG

What is it? Transfer Admission Guarantee. Guaranteed admission to Humboldt State University. Students who sign the TAG will have priority registration.

What to do? Students should follow the CSUGE Breadth or IGETC pattern and follow the major preparation coursework.

Who to see? The Transfer Center coordinator to sign contract.

When to do it? For Fall transfer: by December 1st
For Spring transfer: by August 1st

CSU Northridge – TAG

What is it? Transfer Admission Guarantee.

Guarantees admission to CSU Northridge for all majors except Computer Science, Cinema and Television Arts, Accounting, Finance, and Financial Services.

What to do? Students should focus on completing CSUGE Breadth or IGETC pattern and major preparation coursework.

Who to see? The Transfer Center coordinator to sign contract.

When to do it? For Fall transfer: by November 30th
For Spring transfer: by August 30th

San Diego State University – TAG

What is it? Transfer Admission Guarantee. Guarantees admission to SDSU. This is not a guarantee into the major.

What to do? Students should focus on completing CSUGE Breadth or IGETC, major preparation coursework and meet GPA requirements. Attendance in the Transfer to SDSU Workshop is required for students who want to sign the agreement. Contact the Transfer Center to sign up for a workshop.

Who to see? Transfer Center for information and your counselor to sign the SDSU TAG.

When to do it? As soon as you decide SDSU is an option for you.

Mesa

SAN DIEGO MESA COLLEGE TRANSFER CENTER LONG-RANGE PLANNING WORKSHEET

BRIDGES STUDENT

Name Ima "A." Student (SAMPLE)

TAG → UCSD

CSID _____

* Need 3.0GPA, min.

Date 12/1/2008 Counselor J.C.

MAJOR = BIOLOGY (GENERAL)

YEAR 1		YEAR 2		YEAR 3		YEAR 4	
Fall _____	Units _____	Fall <u>09</u>	Units _____	Fall <u>10</u>	Units _____	Fall <u>11</u>	Units _____
Classes in or not transfer		<u>ENG 101</u>	<u>3</u>	<u>BIOL 210A</u>	<u>4</u>	<u>Phys 195C</u>	<u>4(1)</u>
		<u>CHEM 200L</u>	<u>4(1)</u>	<u>MATH 151</u>	<u>4</u>	<u>PSYC 255</u>	<u>3</u>
		<u>MATH 141</u>	<u>(5) 4</u>	<u>CHEM 231</u>	<u>4(1)</u>		
		<u>(precalc)</u>		<u>PHYS 195A</u>	<u>4(1)</u>		
		<u>HIST 110</u>	<u>3</u>				
Units		Units <u>(16) 14</u>		Units <u>(18) 16</u>		Units <u>(18) 16</u>	
Cumulative Units		Cumulative Units <u>27</u>		Cumulative Units <u>64</u>		Cumulative Units _____	
Spring <u>2009</u>	Units _____	Spring <u>10</u>	Units _____	Spring <u>11</u>	Units _____	Spring <u>12</u>	Units _____
<u>ENG 51</u>	<u>(3)*</u>	<u>ENG 205</u>	<u>3</u>	<u>BIOL 210B</u>	<u>4</u>		
<u>MATH 104</u>	<u>(3)</u>	<u>CHEM 201L</u>	<u>4(1)</u>	<u>MATH 252</u>	<u>4</u>		
<u>CHEM 152</u>	<u>4</u>	<u>MATH 150</u>	<u>5</u>	<u>CHEM 233</u>	<u>4(1)</u>		
<u>ART 100</u>	<u>3</u>	<u>SPAN 101</u>	<u>5</u>	<u>PHYS 195B</u>	<u>4(1)</u>		
* <u>PG 140</u>	<u>3</u>						
Units <u>(16) 10</u>		Units <u>(18) 17</u>		Units <u>(16) 16</u>		Units _____	
Cumulative Units <u>10</u>		Cumulative Units <u>44</u>		Cumulative Units <u>80</u>		Cumulative Units _____	
Summer <u>09</u>	Units _____	Summer <u>10</u>	Units _____	Summer <u>11</u>	Units _____	Summer _____	Units _____
<u>HIST 109</u>	<u>3</u>	<u>CHEM 251</u>	<u>(5) 4</u>	<u>SAN 102</u>	<u>5</u>		
Units <u>3</u>		Units <u>(5) 4</u>		Units <u>3</u>		Units _____	
Cumulative Units <u>13</u>		Cumulative Units <u>48</u>		Cumulative Units <u>85</u>		Cumulative Units _____	

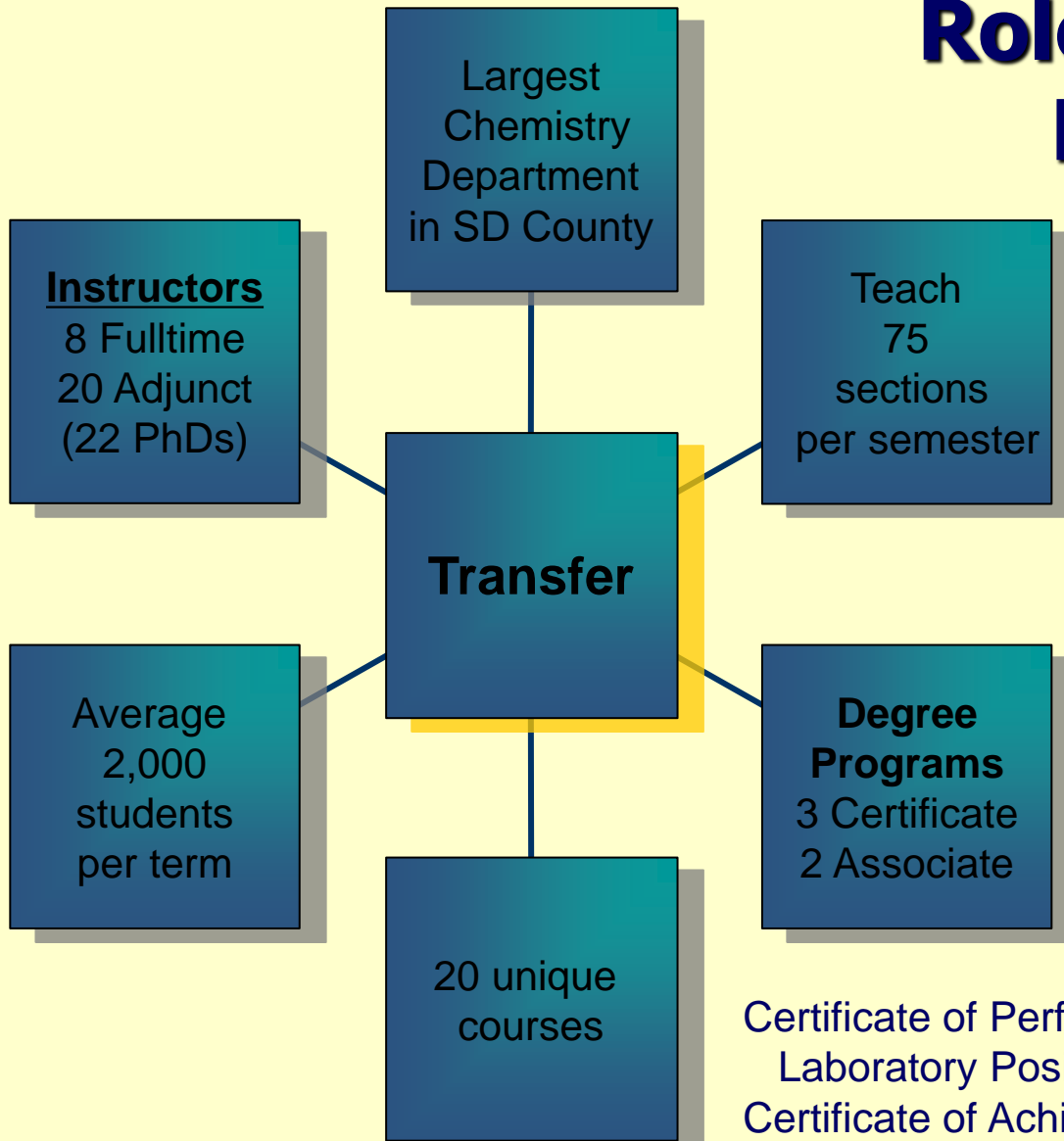
OCTOBER: 2011
APPLY to UCSD

UCSD
SPRING
QTR.

AUGUST 2011
ONLY
SIGN
TAG Agreement

MATH LEVEL: (5) TAKE MATH 104 (TRIG)
ENGLISH: TAKE ENG 51 → 101 → 205

Role of Chemistry Department in Student Transfer



Certificate of Performance: Preparation for Chemistry Laboratory Positions
Certificate of Achievement: Chemistry
ACS Certificate of Achievement: Chemistry Technician
Associate in Science Degree: Chemistry
Associate in Science Degree: Chemistry Technician

Pre-Bridges URM Transfer to the University of California

2005 – 5.8 percent
(of STEM Mesa transfers)

2004 – 7 percent
(of STEM Mesa transfers)

Source: California Post Secondary Education Commission (CPEC), Feb 2013

http://www.census.gov/compendia/statab/cats/population/estimates_and_projections_by_age_sex_raceethnicity.html

2012 U.S. Census Data*Projects Increased Diversity in Ethnicity/Race



Lack of URM's in STEM disciplines is Pervasive in U.S.

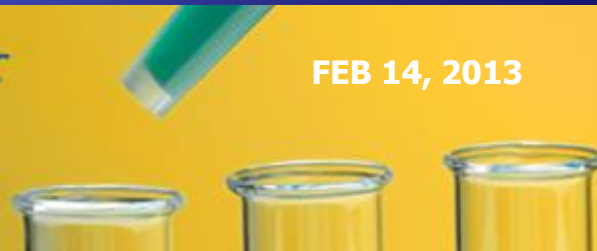
Increasing Diversity in STEM is vital for successful
Science and Technology Development in the U.S.



ACS Diversity eBrief

Chemistry for Life®

FEB 14, 2013



"LACK OF MINORITIES SEEN IN STEM CLASSES"

<http://multibriefs.com/briefs/ACS2/ACS2021413.php>



National Science Foundation
WHERE DISCOVERIES BEGIN

Doctorate Recipients from U.S. Universities: Summary Report 2007-08
Data Tables: 2008 TABLE 9: by field of study and race/ethnicity: 2008

<http://multibriefs.com/briefs/ACS2/index.php>



National Institute of
General Medical Sciences

Basic Discoveries for Better Health

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Promoting Diversity in Research: Championing an Inclusive Scientific Workforce

Share Print E-mail

<http://www.nigms.nih.gov/News/Reports/PromoteDiversity06072009.htm>

Department of Health and Human Services

Part 1. Overview Information

Participating Organization(s)	National Institutes of Health (NIH)
Components of Participating Organizations	National Institute of General Medical Sciences (NIGMS)
Funding Opportunity Title	Bridges to the Baccalaureate Program (R25)
Activity Code	R25 Education Projects
Announcement Type	Reissue of PAR-11-285
Related Notices	None
Funding Opportunity Announcement (FOA) Number	PAR-12-277
Companion Funding Opportunity	None
Number of Applications	Only one application per institution is allowed, as defined in Section III. 3. Additional Information on Eligibility .
Catalog of Federal Domestic Assistance (CFDA) Number(s)	93.859
Funding Opportunity Purpose	This Funding Opportunity Announcement (FOA) issued by the National Institute of General Medical Sciences (NIGMS), National Institutes of Health (NIH), encourages Research Education Grant (R25) applications from institutions that propose research education programs to increase the pool of community college students from underrepresented backgrounds who go on to research careers in the biomedical and behavioral sciences and will be available to participate in NIH-funded research. This initiative promotes partnerships/consortia between community colleges or other two-year post-secondary educational institutions granting the associate degree with colleges or universities that offer the baccalaureate degree. The program expects that the joint efforts of baccalaureate degree-granting and associate degree-granting institutions will foster the development of a well-integrated institutional program that will provide students with the necessary academic preparation and skills to enable their transition and successful completion of the baccalaureate and subsequently more advanced degrees in biomedical and behavioral sciences.

The Bridges to the Baccalaureate Program at San Diego Mesa College



2005 to Present

http://publications.nigms.nih.gov/multimedia/map/BridgesToBA/

bing | bridges to

par 12 27

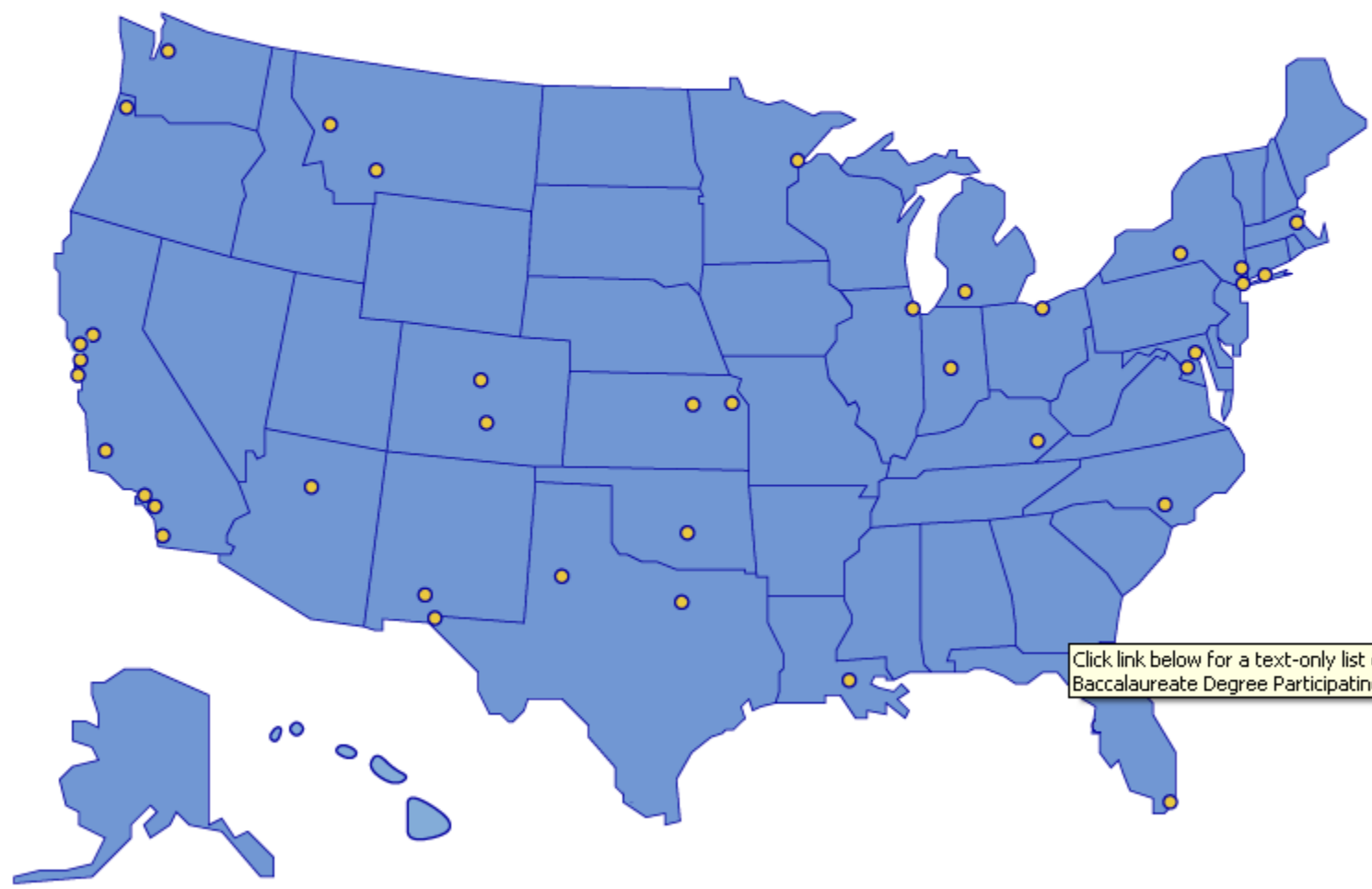
58°

24

Home RSS Print Page Safety Tools

Bridges to the Baccalaureate Degree Participating Institutions

For Bridges to the Baccalaureate Degree program contact information, click the dots on the map below.



Click link below for a text-only list of Bridges to the Baccalaureate Degree Participating Institutions.

Bridges' Program Goals

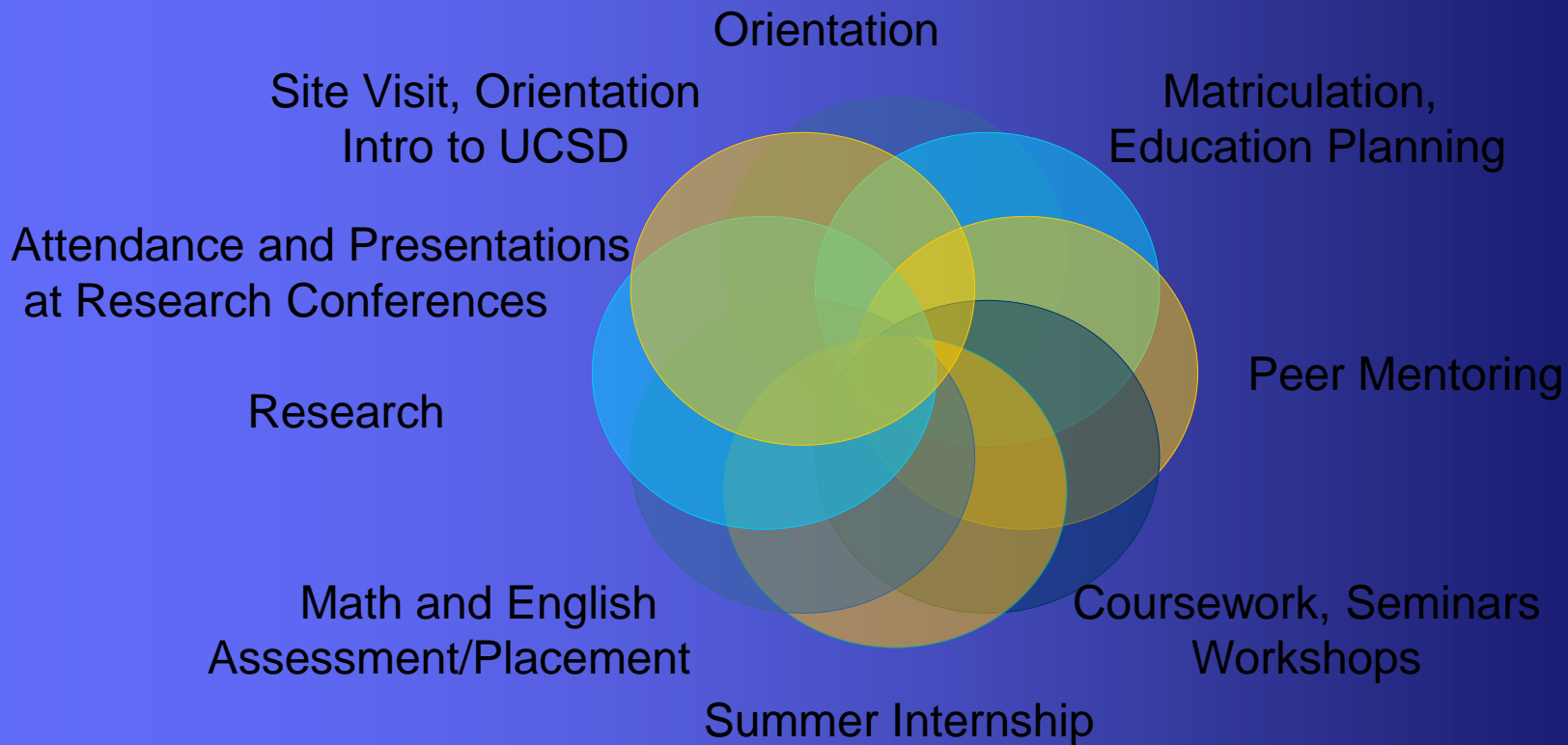
increase the overall transfer admission rate of underrepresented minorities majoring in the biomedical or behavioral sciences by ten percent per year, and

transfer at least seventy percent of the Bridges students to a four-year university, and

ensure that seventy-five percent of Bridges students will earn a bachelor's degree in the biomedical or behavioral sciences.



Developmental Activities





http://www.abrcms.org/index.html

This conference is managed by the American Society for Microbiology

▲HOME

WWW.ABRCMS.ORG



NOVEMBER 13-16, 2013

NASHVILLE, TENNESSEE

Annual Biomedical Research Conference for Minority Students

ABRCMS

PROGRAM

REGISTRATION & HOUSING

EXHIBITS & SPONSORS

ABSTRACTS & POSTERS

TRAVEL AWARDS

CONTACT US



MANAGED BY:



SPONSORED BY:



WHAT'S NEW

- 2012 ABRCMS Presentation Awards
- Check out the program highlights!

IMPORTANT DATES & DEADLINES

- May 1, 2013: Abstract Submission & Travel Award Application Site Opens
- May 15, 2013: General Exhibit Booth Registration Opens
- May 15, 2013: Conference Registration & Housing Opens
- Sept. 6, 2013: Abstract Submission Deadline
- Sept. 6, 2013: ABRCMS Travel Award Deadline
- Sept. 27, 2013: Judges' Travel Subsidy Deadline
- Sept. 27, 2013: FASEB MARC Travel Award Application Deadline
- Oct. 15, 2013: Hotel Reservations Deadline
- Oct. 21, 2013: Discount Registration Deadline

ABRCMS IN THE NEWS

America can "learn a lesson" from ABRCMS students says the *New York Times*. [Read the Article ▶](#)

STAY CONNECTED

2013 SACNAS National Conference



Spring Deadline

Travel Scholarship & Abstract:
March 4 - April 3, 2013

Summer Program Deadline

Travel Scholarship:
May 20 - June 14, 2013
Abstract:
May 20 - July 3, 2013

*(deadline for pre-registered undergraduate
summer programs ONLY)*

Submit your Abstract! Apply for a Travel Scholarship!

Student Research Presentations

Present your Work at a National Scientific Conference!

Our SACNAS mentors, which are made up of university professors and professional scientists, provide feedback and guidance to students at every level of research experience and presentation skill.

For more information: Contact Asis Lopez, SACNAS Programs Manager at asis@sacnas.org

Travel Scholarship Awards

SACNAS is pleased to offer travel scholarship awards to selected applicants. Awards include round-trip airfare to/from San Antonio, Texas and lodging through the conference dates.

For more information: Contact Brianda Alvarez, SACNAS Programs Manager at brianda@sacnas.org

Important Note: Travel scholarship applications and abstract submissions are independent of each other. Acceptance of an abstract does not mean acceptance of a travel scholarship, or vice versa.

**For more information visit sacnas.org
or call 1-877-SACNAS-1**

Strengthening the Nation through Diversity,
Innovation & Leadership in STEM

October 3-6, 2013
San Antonio, Texas
Henry B. Gonzalez Convention Center



Bridges Student Achievements and Accomplishments

Summer Internships

Transfers

2012-2013

UCSD 7, SDSU 2,
SD Mesa 6, U. Of MN: 1

UCSD 4, UCLA 1, UC Davis 2, SDSU 3,
U. of Utah School of Pharmacy 1

2011-2012

UCSD 11, SDSU 2,
U. of Glasgow Scotland 1,
Sea World, San Diego 1

UCSD 5, UCLA 1, UC Santa Barbara 1,
SDSU 3

2010-2011

UCSD 13, SDSU 3,
Woods Hole Oceanographic Institution,
MA 1

UCSD 5, SDSU 4

2009-2010

UCSD 4, SDSU 1,
Scripps Oceanographic Inst. 1

UCSD 2, SDSU 4, U. of Guam 1

Bridges Student Achievements and Accomplishments

RECENT SCHOLARSHIPS AND AWARDS

MARY GRAVES: San Diego Mesa College Chemistry Department Scholarship Award, 2012. SACNAS Travel Award 2012.

JASMINE GREEN: UC Davis entering UG Scholarship, and UC Davis fee Grant.

ABDIRISAK HUSSEIN: Jack Kent Cooke Transfer Undergraduate Scholarship, Jack Kent Cooke Foundation, 2012; American Chemical Society Scholars Program Award 2012, San Diego Mesa College Chemistry Department Scholarship Award, 2012; San Diego Mesa College Dr. Granville N. Moore Memorial Scholarship Award, 2012; San Diego Mesa College Beta Beta Upsilon Chapter of Phi Theta Kappa Scholarship Award, 2012; San Diego Mesa College 2011-2012 Osher Scholarship Award; 2012 Certificate of Recognition, California legislature Assembly, 2012 Undergraduate Summer Research Internship, University of Minnesota, SACNAS Travel Award 2012.

ALBERTO PALACIOS: 2012 Mesa College Foundation Scholarship, SACNAS Travel Award 2012.

MOHAMMAD MUSSE: UCSD Chancellor's Transfer Student Scholarship, 2011-2013.

Bridges Student Achievements and Accomplishments

RECIPIENTS OF PRESTIGIOUS RESEARCH CONFERENCE AWARDS

LIDIA MONJARAS: Poster Presentation in Social/Behavioral Sciences and Public Health, Psychology Division, entitled, "Shame in Dating: Violence Victimization in Teen Girls", 2012 ABRCMS Conference. Presently attending San Diego Mesa College.

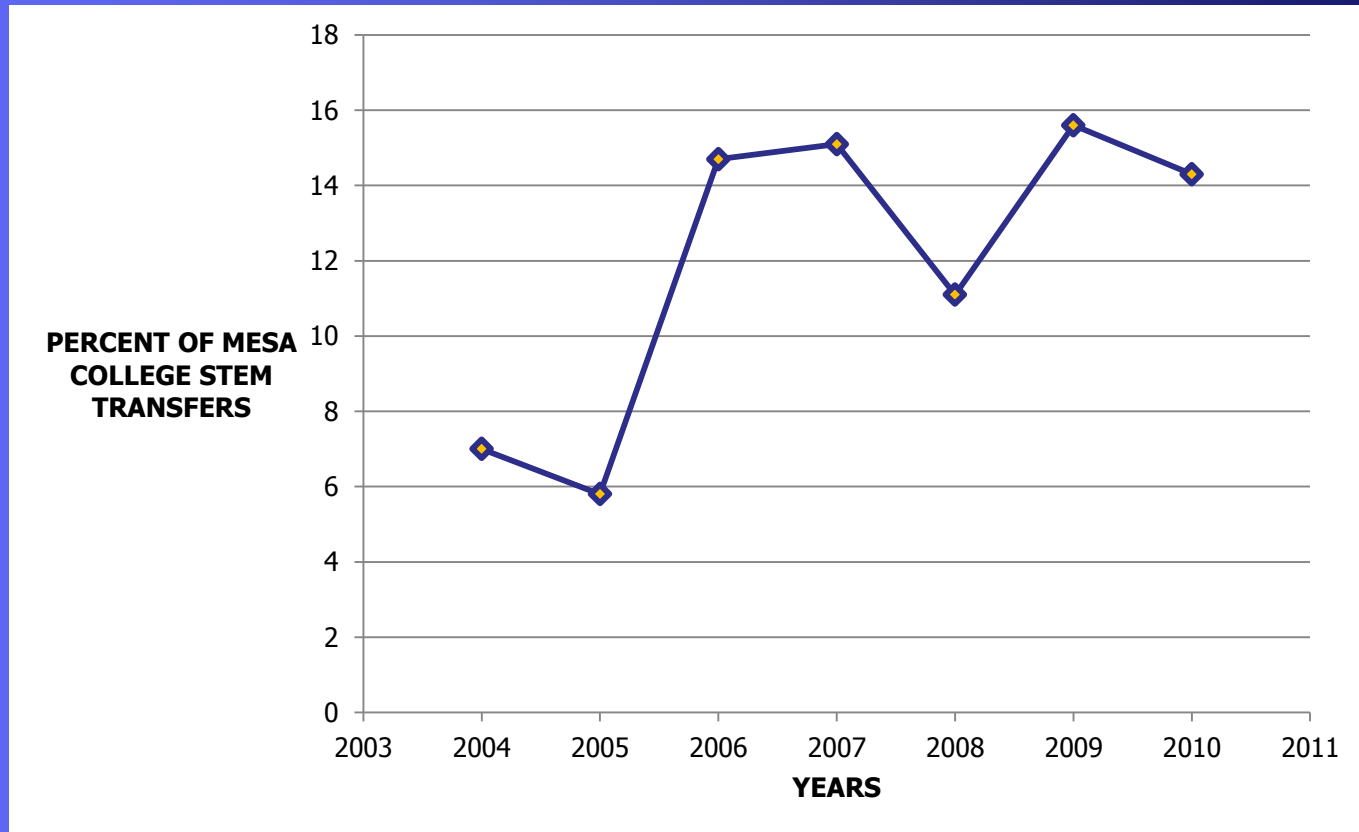
WENDY PLANTE: Oral Presentation in Neurosciences, entitled, " Mirror Neuron System Activation as a Function of Autism Symptom Severity: A Replication and Extension of Previous Findings". 2012 ABRCMS Conference. Presently attending UCLA.

CECILIA BESS: Poster Presentation in Social/Behavioral Sciences and Public Health, Psychology Division, entitled, "Demographic Predictors of Initial Interest in Contra lateral Prophylactic Mastectomy among Women with Sporadic Breast Cancer: Preliminary Results". 2012 ABRCMS Conference. Presently attending SDSU.

DEAN ELHAG: Poster Presentation in Bioengineering entitled, "Determining Oxygen Hemoglobin Dissociation Curve and Ligand Kinetics of Lumbricus Erythrocrucin Using A Hemoxy Analyzer Machine", 2011 SACNAS Conference. Presently attending UCSD.

MOHAMED MUSSE: Poster Presentation in Biochemistry entitled, "Micro-Purification of Phosphofructokinase-1", 2010 Conference. Presently attending UCSD.

Transfer of San Diego Mesa College URMs in STEM Disciplines to University of California (pre and post-Bridges Program)



Source: California Post Secondary Education Commission (CPEC), Feb 2013











Room 120

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Acknowledgements

University of California at San Diego

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