

The American Competitiveness Initiative: Challenges and Opportunities for Hispanic Serving Institutions

HSIs: Recruitment, Retention, and Graduation of Hispanic students in STEM fields



The Crisis

- Growing concern about the U.S. economy:
 - Globalization
 - Out-sourcing & off-shoring
 - -Rapid rise of other nations



Bells, Alarms and Whistles

- The United States is today a net importer of hightechnology products. Its trade balance in hightechnology manufactured goods shifted from plus \$54 billion in 1990 to negative \$50 billion in 2001.
- Chemical companies closed 70 facilities in the United States in 2004.
- In 2005, only four American companies ranked among the top 10 corporate recipients of patents granted by the US Patent and Trademark Office.

NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF ENGINEERING, AND
INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES



- Fewer than one-third of US 4th grade and 8th grade students performed at or above a level called "proficient" in mathematics.
- About one-third of the 4th graders and one-fifth of the 8th graders lacked the competence to perform even basic mathematical computations.
- US 15-year-olds ranked 24th out of 40 countries that participated in 2003 administration of the Program for International Student Assessment (PISA) examination, which assessed students' ability to apply mathematical concepts to real-world problems.

NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF ENGINEERING, AND
INSTITUTE OF MEDICINE
OF THE NATIONAL ACADEMIES



- In South Korea, 38% of all undergraduates receive their degrees in science or engineering.
 In France, the figure is 47%, in China, 50%, and in Singapore 67%. In the United States, the corresponding figure is 15%.
- Some 34% percent of doctoral degrees in natural sciences and 56% of engineering PhDs in the United States are awarded to foreign-born students.

NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF ENGINEERING, AND



Looking for Solutions







Student Diversity

- •54% of CSU's students are students of color
- •66% of California's K-12 students are students of color
- •33% of all Latino students in higher education in the country, live in California
- •Future of California depends on CSU's ability to reach:
 - -Students of color and
 - -Students from traditionally underrepresented groups



K-12 Partnerships

- Build bridges with public K-12 partners
- Reach out to middle and high schools to help more students prepare for and succeed in college
- •Ensure consistency in standards, requirements



K-12 Partnerships

- •EAP, Early Assessment Program
- How to Get to College Poster
- •MESA
- TRIO
- •GEAR UP





¿Qué clases debo tomar? ¡de 9no a 12avo Grados

La admissión a la Universidad Estatal de Califotnia tequiete las siguientes classes de preparación para la universidad lognocidas como cultos "A-G"):

- Inglés: 4 años de cutado de preparación para la universidad en composición y literatura (toma un cutad per año).
- Matemáticas: 3 años (se l'ecomienda tamal 4 años), debe incluir Álgabía I, Geometia, Álgabía II o Matemáticas Avencedas (toma un cuiso pol año)
- Histořía y Ciencias Sociales: 2 años, debe incluir un año de Histořía de los Estados Unidos (o un semestre de Histořía de los Estados Unidos y un semestre de educación civica o sistema de gobierno estadounidense) y un año de ciencias sociales
- Ciencias de Laboratorio: 2 años con un curso de laboratorio.
- Idisma (que no sea inglés): 2 sños del mismo idisma (puede incluir lenguaje estadounidense de señas)
- Attes Visuales e interpretativas: un año de danca, d'ama o testio, música, o aftes visuales
- Curse Bectivo de Prepatación para la Universidad un año de cualquiel materia de preparación para la universidad

Mate: Seconphormische (300 dimentification receptation de secondorlopes complè con la requision desande la coraca A-G. Coració la "late de coraca A-G" en enercinopeda de coraca para averigare collès collècas.

Visita www.calstate.edu





Professional Organizations

- 1. HENAAC
- 2. SHPE
- 3. SACNAS
- 4. MAES

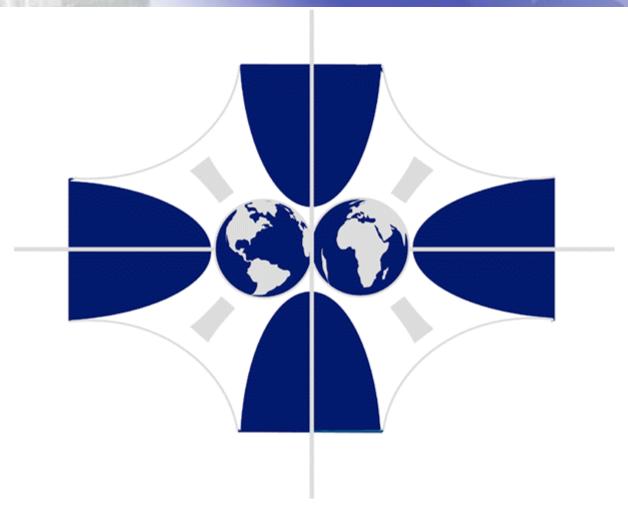






Mike McClure





Diana Gomez, National President





Dr. Aaron Velasco, President





Michael Acosta, National President



Thank you very much



White House President George W. Bush

INITIATIVE ON EDUCATIONAL EXCELLENCE FOR HISPANIC AMERICANS

White House
President George W. Bush

Initiative on Educational Excellence for Hispanic Americans

White House President George W. Bush

INITIATIVE ON EDUCATIONAL EXCELLENCE FOR HISPANIC AMERICANS

White House
President George W. Bush

INITIATIVE ON EDUCATIONAL EXCELLENCE FOR HISPANIC AMERICANS

White House President George W. Bush

INITIATIVE ON EDUCATIONAL EXCELLENCE FOR HISPANIC AMERICANS