

# **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 *high-technology* products. Its trade balance in high-technology 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.

- 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.

- 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.

# Looking for Solutions

# INITIATIVE ON EDUCATIONAL EXCELLENCE FOR HISPANIC AMERICANS



# 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

# Cómo llegar a la Universidad

## ¡Tú lo puedes lograr!

Un título universitario te puede ayudar a realizar tus sueños de ser maestro, astronauta, doctor o doctora, enfermero o enfermera, atleta, actor o actriz o lo que tú quieras ser. Planea con anticipación y sigue los pasos indicados para cada grado de la secundaria.



## ¿Qué clases debo tomar?

### de 9no a 12avo Grados

La admisión a la Universidad Estatal de California requiere las siguientes clases de preparación para la universidad (conocidas como cursos "A-G"):

- Inglés: 4 años de cursos de preparación para la universidad en composición y literatura (como un curso por año)
- Matemáticas: 3 años (se recomienda tomar 4 años), debe incluir Álgebra I, Geometría, Álgebra II o Matemáticas Avanzadas (como un curso por año)
- Historia y Ciencias Sociales: 2 años, debe incluir un año de Historia de los Estados Unidos (o un semestre de Historia de los Estados Unidos y un semestre de educación cívica o sistema de gobierno estadounidense) y un año de ciencias sociales

- Ciencias de Laboratorio: 2 años con un curso de laboratorio
- Idioma (que no sea inglés): 2 años del mismo idioma (puede incluir lenguaje estadounidense de señas)
- Artes Visuales e Interpretativas: un año de danza, drama o teatro, música, o artes visuales
- Cursos Electivos de Preparación para la Universidad: un año de cualquier materia de preparación para la universidad

*Note: Se exceptúan más de 1,000 estudiantes de secundaria de cumplir con los requisitos de uno de los cursos A-G. Consulta la "Lista de cursos A-G" en [www.cgs.edu/college](http://www.cgs.edu/college) para averiguar cuáles califican.*

Visita

[www.calstate.edu](http://www.calstate.edu)



# Professional Organizations

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

*White House*  
President George W. Bush

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*Thank you very much*

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