

The California State University Mathematics and Science Teacher Initiative

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Addressing Crisis in Supply of Mathematics and Science Teachers

- ❖ CSU committed to doubling its math and science teacher production from 750 to 1,500 by 2010
- Comprehensive Recruitment
- New Credential Pathways
- Financial Support and Incentives
- Community College Alignment for Successful Transfer
- Internet-supported Delivery of Instruction
- Federal Lab and Industry Opportunities for Candidates

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The CSU Mathematics and Science Teacher Initiative Results to Date

- Significant results
 - Increases of 68% in CSU math and science teachers during the past four years (768 in 2003 to 1,289 in 2007)
- Major gains in mathematics
 - Partly because of Foundational Level Math Credential: +125%
- Gains in all four sciences
 - Biology +8%, Chemistry +62%, Geosciences +49%, Physics +28%

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Broad Impacts of CSU Mathematics and Science Teacher Initiative

- Gains among virtually all campuses
 - 12 campuses increased production by >50%
- Gains in second and third science authorizations
 - 33% of CSU science candidates earning second authorizations
- Major gains in middle school mathematics teachers
 - Credential established in 2004; production in 2006-07=261; regular mathematics credentials=527

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CSU Mathematics and Science Teachers Serve High Need Schools

- 44.6% teach in urban schools, 8.7% in rural schools
- 41.3% in schools that do not meet their annual API
- 72.5% in schools with 25% or more students in poverty
- 92.1% in schools with <100% fully credentialed teachers

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CSU Mathematics and Science Teachers Initiative is Recognized Nationally

- The CSU Math and Science Teacher Initiative has been recognized as a national model by:
- American Association of Colleges of Teacher Education (AACTE)
 - National Association of System Heads (NASH)
 - National Association of State Universities and Land Grant Universities (NASULGC)

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