


Developing Excellence:

Innovative Systemic Standards-led Partner Programs for Teacher Preparation, Higher Education, Secondary and Middle Level Professional Development in the STEM Disciplines



Center for Teaching and Learning in Science, Mathematics, and Technology

Chicago State University
Nancy C. Grim, Director

Supported by the Teacher Quality Enhancement, EOT-PACI, Eisenhower, and FIRST II Initiatives

FIRST II Institute V
February 7, 2004

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Consortia Team Partners

- University
 - Education
 - Arts & Sciences
- Community Colleges
 - Arts & Sciences
- Middle Level and Secondary Schools
- Teachers in Residence

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Programmatic/Curricular Goals

- Design a standards-based middle grades teacher preparation program
- Redesign the secondary science program to match a standards-aligned assessment system
- Develop faculty expertise in engaged curriculum innovation, assessment development and web-based design skills
- Innovate strategic models for attracting more teachers, especially in rural and urban areas
 - Preservice Recruitment
 - Preservice Persistence
 - Preservice Placement
 - Inservice Job Attainment
 - Inservice Induction/Retention
- Increase accessibility via variety of delivery options

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Activities to Promote Partnerships

- Leadership and Design Teams
 - Curriculum
 - Technology
- Leadership Academies
- Student Affiliate chapters: CMLA, NSTA
- Recruitment of Community College Students
- Middle and Secondary School Cohort Programs
- Community College Seminars



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Aligning Standards

- Facilitated standards alignment activities and the process of assessment development across the unit
- Provided coaches and technical assistance
- Provided leadership in developing the proposed Associate of Arts in Teaching (AAT) in Science and Math
- Worked on State Middle Level Panels
 - Middle Level Standards approved
- Worked on proposed ICTS teacher certificate exams and standards development or validation science panels
- Provided Leadership for Accreditation Panels for IBHE and NCATE

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Curriculum Activities

- Co-created sequence of courses; general and professional education
- Aligned standards with all courses
- Designed middle grades program for 5-8 certificate
 - Chicago State University's MIDS program was granted NMSA accreditation recognition
- Modified K-9 and 6-12 programs to include middle level enhanced endorsement
- Aligned community college exit exams with university entrance exams and updated transfer agreements.

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CSU Middle and Secondary Science Teacher Programs



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Recruiting Students

- Held Basic Skills training at community colleges
- Placed recruitment materials, posters at all community colleges
- Created community college cohort groups who tutor at local middle and secondary schools
- Establish Collegiate Middle Level Association and National Science Teachers Association student affiliate chapters
- Built recruitment and transfer information websites



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Leadership Academies: Professional Development

- Invited Arts & Sciences faculty from 2-year and 4-year institutions to explore middle level concept
- Sought to align content and model methods in Arts & Sciences courses in both 2- and 4-year settings
- Hosted shadowing experiences
- Visited various middle school sites
- Co-developed teacher preparation curriculum with K-12 teacher experts
- Held Best-Practices Conferences in ESL/Bi-lingual Writing, Grants, Cooperative Learning, Technology



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Technology Training

- Provided computers, digital cameras, technical assistance for embedding technology
- Held week-long technology trainings
 - Webpage, PowerPoint, Blackboard, Netscape Composer, Inspiration, Gradequick, Smart Board, Capturing Digital Images, Video, Teacher Tech Science and Mathematics software, etc.
- Trained in Marco Polo, LiveText, videography...
- Assisted in web-enhanced module development



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Offering Student Assistance

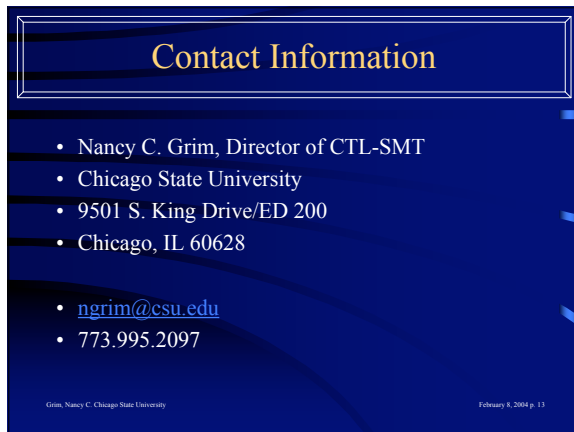
- Held Open House and information seminars
- Offered scholarships or stipends to those who excel
- Sponsored students to attend professional conferences
- Provided cost-free attendance to Summer Institutes
- Collaborate with teachers/ Eisenhower Grants
- Opened Tutorial Support Services through the Teachers Writing and Assistance Center

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Sustaining Professional Development

- Supported community college and university faculty partners to attend a range of conferences/workshops, to build technology proficiency, and to create web-enhanced modules.
- Partnered with NSTA, Jason Project, EOT-PACI/TeacherTech, and FIRST II to provide national expertise to the local empowerment zone community.
- Sponsored standards alignment and LiveText training at community college sites.
- Promoted the growth of expertise/leadership in providing support to partner community college and tenure-track faculty to present engaged learning, inquiry, problem-based learning and assessment workshops to inservice and preservice teachers in STEM disciplines.

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