College Ready
In Mathematics and Physics Partnership
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Mission Statement

The mission of the College Ready in Mathematics and Physics Partnership is to enhance mathematics and physics learning for all students in its partner districts and teacher-preparation programs in partner institutions, closing achievement gaps, and preparing students for success in mathematics, science, and teaching careers. This will be achieved by building learning communities of 7-12 teachers and college faculty that foster and nurture smooth access to, productive disposition toward, and preparation for success in college.
Overview

Successes and Challenges as they relate to:

- Goals and Objectives
- Identification, Engagement and Sustainability of the Partnership
- Professional Development
- Creating Professional Learning Communities
- Transition from High School to College
- Evaluation and Data Collection
Goals and Objectives

- Enhance mathematics and physics learning
- Enhance teacher preparation programs
- Close achievement gaps
- Success of college graduates in STEM areas and teaching careers
- Facilitate the transition from high school to college
Identification and Engagement of the Partners

- Identification of partners
- Primary: two IHEs, 38 school districts in two states
- Supporting: three professional organizations, two non-profits, one IHE and one center
- Implementation
- Organizational structure and governance
Partnership Driven

- Reciprocity and mutual benefits
- Effective communication
- Environment of trust and mutual respect
Effective Professional Development

- Meet the needs of 7-12 teachers
- Focus on substantive knowledge in mathematics and physics
- Organize pedagogy around content-focused inquiry-based courses
- Model effective teaching
- Utilize summer institutes and follow-up
Professional Learning Communities

- Build learning communities including college faculty around master teachers
- Link professional development to teacher classroom behavior
- Create peer-coaches
- Focus on student achievement
- Understand role of administrators in facilitating PLC’s
- Long-term sustainability of MSP
Transition from High School to College

- Articulation across disciplines (mathematics and physics)
- Articulation from middle-level (7-8) to high school (9-12) to college
- Communication and collaboration
- Difficulties in transition
Articulation Model for Student Success
Teacher Preparation and Recruitment

- Curriculum changes in mathematics, physics and education
- Professional development for higher education faculty
- Recruitment of mathematics and physics students for teaching careers
Evaluation and Data Collection

- Evaluator Involvement
- Organization: Evaluation Committee
- Formative Evaluation: Summer Workshops
- Summative Evaluation: First Year Issues
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