Professional Development at Scale in the SUNY Math Pathways Network

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Change Math from Gatekeeper to Gateway

- Streamlined Course Pathways
- Ambitious, relevant curriculum & student-focused, collaborative pedagogy
- Language and Literacy supports
- Productive Persistence interventions/practices
- Comprehensive and sustained professional learning opportunities
- Institutional Readiness & Support
- Network engagement and improvement
Launched in 2015 (funded by Gates Foundation)

Goals

• Invite SUNY colleges (and universities) to consider implementation of Quantway/Statway
• Provide PD for participating faculty across SUNY
• Develop capacity of SUNY system as hub of SUNY Pathways Network
• Maintain commitment to faculty-driven and implemented change
What is the SUNY System?

One of the largest comprehensive systems of universities, colleges, and community colleges in the US

- Total enrollment of 465,000 students
- Plus 1.1 million adult education students
- 64 campuses
SUNY Pathways Network

Cohort 1: Adirondack, Broome, FIT, Mohawk Valley, Morrisville, Niagara, Onondaga, Rockland, Schenectady, Suffolk, Tompkins Cortland, Westchester

Cohort 2: Alfred State, Clinton, Corning, Finger Lakes, Jamestown, North Country, Orange, Plattsburgh, Ulster
SUNY Pathways Network

Launched in 2015 and as of Fall 2017
• 19 campuses teaching Quantway
• 2 campuses teaching Statway
• Over 150 faculty trained
• Over 4000 students served
• 5 System-wide institutes/workshops
• 3 Regional workshops
The Challenge

How to structure and provide effective PD for Pathways instructors in the SUNY system?

- What are essential elements of effective PD supporting implementation and instruction of the Pathways?
- What kinds of professional learning opportunities are critical for supporting effective implementation and instruction?
- How are those opportunities best structured and organized?
Discussion: Your Professional Development Experiences (15 min)

At your tables, share your experiences, challenges with, and benefits from professional development at these different “levels”:

- Self-driven professional learning opportunities
- Departmental professional development
- Institutional professional development
- Cross-institutional or network/community-based professional development
Guiding Principles

- Faculty-driven, Faculty-led
- Community that nurtures social belonging and social learning
- Centered around experiences of actual classroom practice
- Multiple modalities for engaging in relevant information and expertise
- Responsive to (changing) instructors’ needs
Faculty Support Program

Prepare faculty to teach Statway/Quantway, including focus on:

• Curriculum
• Pedagogical model and practices
• Productive Persistence interventions and practices
• Course setup/planning

Support first-time faculty during first year of teaching, with particular focus on:

• Starting Strong (the first 3-4 weeks)
• Staying Strong throughout the term/year
• Collaborative learning strategies
• Sharing and addressing emergent problems of practice
The SUNY Pathways Network: The Community

- SUNY Liaisons
  - Faculty
  - Administrator
  - Advisor
- Faculty Mentors: Campus connection to SUNY and CMP
- Returning/experienced SUNY faculty: Continued PD
- SUNY system/hub: Coordinate events, provide grant support, administrative guidance
- Pathways team: Provide technical assistance, program support, analytics
The SUNY Pathways Network: Trajectory of Engagement

- **Initial exploration**
  - Fall Institute, classroom visits, interactions with liaisons
- **Preparing to implement and teach**
  - Spring Forum, online resources, faculty mentoring
- **Support during teaching**
  - Faculty mentoring, Fall Institute, winter regional meeting, Spring Forum for returning faculty
- **Enrichment and sharing of expertise**
  - Returning faculty share innovations/expertise at various events as well as attend enrichment sessions
Engaging in Experiences of Classroom Practice

- Classroom observations
  - On-site and remote
  - Key resource for explorers
- Student Experience
  - Example: Shongo Networks Lesson
- Instructor Experience
  - Classroom videos
  - Example: Fishbowl demo lesson structure
Meeting Faculty and Institutional Needs

Continuous improvement to meeting diverse and changing needs:

- Face-to-face
  - Fall Institute & Spring Forum
  - Regional workshops
  - Classroom visits
- Online
  - *Pathways Online Preparation* course
  - *Help with Teaching* online resources
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Advancing Quality Teaching

Professional Development for Pathways instructors

- Faculty Mentoring for all instructors
- Faculty Support Program (FSP) for first-time Pathways instructors
- Online instructional resources
- Targeted coaching opportunities in Year 2+