

HSSU & SLPS "Math-in-Motion" Summer Academy

Executive Summary for Academic & Career Readiness Leadership

AT A GLANCE

Duration: 6-Week Summer Pilot (July-August 2027)

Location: Harris-Stowe State University

Students: 20-30 students (Grades 7-11, Credit Recovery Eligible)

Focus: Workforce Readiness & Applied Mathematics

Program Overview

The Math-in-Motion Summer Academy is an innovative workforce readiness program designed to arrest the "math slide" among minority youth in St. Louis Public Schools. By reimagining summer school as a "Simulated Workplace," the program teaches Algebra and Geometry through hands-on skilled trades projects. Students work alongside certified math teachers and experienced tradespeople in a community-based workshop setting, earning a Workforce Numeracy Certificate of Completion and a \$1,000 training-wage stipend upon successful completion.

Key Partnerships

Harris-Stowe State University (HSSU): Program oversight, curriculum coordination, evaluation support, and student data management.

Building Futures STL: Primary community partner providing workshop facility, fabrication lab, hands-on project coordination, and industry mentors.

Saint Louis Public Schools (SLPS): Student recruitment, transportation coordination, and academic integration.

Core Program Components

- **Credit Recovery:** In-person credit recovery option for students who have failed high school math courses
- **Hands-On Learning:** Students engage in construction, electrical, and HVAC projects that reinforce Algebra and Geometry concepts
- **Workplace Simulation:** Professional clock-in system, safety protocols, and "Work Order" instructional format
- **Weekly Mentorship:** "Lunch & Learn" sessions with trades mentors sharing career pathways and math application
- **Family Engagement:** Weekly sessions connecting families to their students' learning journey

85%

Target: Students showing ≥ 1 grade level growth in applied numeracy

90%

Target: Student satisfaction rate with program experience

Expected Outcomes

- Improved mathematics proficiency and confidence among participants
- Reduced need for remedial math courses in future academic pursuits
- Development of professional identity and technical career awareness
- Documentation of applied numeracy skills through portfolio and digital credentialing
- Proof of concept for community-based, in-person math intervention model

Pilot Focus

This single-summer pilot is intentionally scoped to demonstrate core program components without commitment to expansion. The pilot will generate comprehensive evaluation data on student learning gains, co-teaching model effectiveness, family engagement, and operational feasibility to inform future decision-making. All activities take place at Harris-Stowe State University, utilizing campus facilities to create an authentic connection between the program and higher education pathways.

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Partners: Harris-Stowe State University • Saint Louis Public Schools • Building Futures STL