



STEMworks – STEM Advisory Council’s Approved STEM Program October 2017

STEM Equity Pipeline

PROGRAM OVERVIEW

The National Alliance for Partnerships in Equity Education Foundation (NAPE) builds educators’ capacity to implement effective solutions for increasing student access, educational equity and workforce diversity. NAPE’s premier professional development program, The STEM Equity Pipeline is a research-based professional development and technical assistance program focused on increasing the participation of women, girls, Students of color and other underrepresented students in STEM related programs of study at the middle, high school and community college level. NAPE’s Comprehensive Educational Equity Programs include the Program Improvement Process for Equity™ (PIPE), and Micromessaging to Reach and Teach Every Student™ (Micromessaging) PIPE works with school-based teams of administrators, teachers, counselors and staff to change the institutional culture and Micromessaging works with teachers/faculty to change the culture of the classroom.

TARGET GRADES

Primarily middle school, high school and community college – although we have done some implementation of the Micromessaging professional development with elementary school teachers and university STEM faculty.

A UNIQUE OR SPECIAL FOCUS OF THE PROGRAM

NAPE’s educator professional development programs build the capacity of educators to implement research-based strategies to increase the participation, persistence and transition of underrepresented students in STEM programs of study.

THE PROGRAM’S IMPACT ON STUDENTS

NAPE’s educator professional development has proven to increase achievement of females and students of color in STEM courses, increase science and math AP taking and passage rates, and increase the participation and completion of students in career and technical education programs nontraditional for their gender.

SPECIFIC SKILLS STUDENTS WILL LEARN

When teachers implement the strategies learned in the NAPE training they report that students exhibit the following social-emotional learning, career development, and academic skills –

- | | |
|--|---|
| <i>1- Growth mindset</i> | <i>5-Increased interest in STEM education and careers</i> |
| <i>2-Positive self-efficacy</i> | <i>6-Increased engagement in STEM learning</i> |
| <i>3-Improved self-regulation</i> | <i>7-Increase persistence in STEM programs</i> |
| <i>4-Stronger internal attribution</i> | |

RESOURCES PROVIDED TO EDUCATORS

Resources include professional development, professional learning community (PLC) leader training and technical assistance, training workbooks, activity sheets, student lesson plans, supplementary toolkits on specific topics, online courses, infographic posters that illustrate concepts from the curriculum, real-time and archived webinars, research summaries, evaluation tools, reports, videos, posters, and best practice examples.

WEBSITE

www.napequity.org

CONTACT INFORMATION

Mimi Lufkin - Chief Executive Officer
mimilufkin@napequity.org
717-407-5118

Ben Williams, PhD – Vice President of Programs
bwilliams@napequity.org
614-596-5730