Miami Dade College

- MDC has the largest undergraduate enrollment of any college or university in the country
- MDC enrolls more minority students than any college or university in the country (71% Hispanic, and 17% Black, non-Hispanic)
- MDC is the #1 producer of associate degrees awarded to Hispanics, African Americans, as well as in the Liberal Arts, Humanities and Sciences
- MDC’s School of Science was established in 2011 and its research-based programs quickly followed.
CUREs @ MDC

Approach. Export authentic research experiences from the traditional apprenticeship model into the classroom

- Faculty introduce research
- Hypothesis and experiment design
- Data collection and analysis
- Final products: Paper & Poster

Supported by NIGMS, HHMI, MDC, and University of Miami
CURE Outcome 1 - MDC students report greater benefits than students nationally

Data adopted from Weremijewicz, J., Indorf, J.L., Belmont, H.J. and Gaines, M.S. 2017. Implementing Authentic Research-based Introductory Laboratory Courses at Bridge Scholars' Home Institution. NIGMS TWD Meeting Poster.
**Approach.** Traditional authentic research experiences at a MDC or Institutional Partner

- **MDC or Partner Institution Faculty introduce research**
- **Hypothesis and experiment design**
- **Data collection and analysis**
- **Final products: Paper & Poster (local, regional, national)**
SRI Impact on 3-yr Graduation Rates

- SRI Graduates
- SRI Graduation Rate
- SRI Participants
- STEM Graduation Rate
- MDC Overall Graduation Rate

2011-12: 74.2%
2012-13: 91%
2013-14: 71%
2014-15: 81%
Bioscience Internships @ MDC

Approach. Perform academically relevant work outside of academia while obtaining college credit

- Faculty introduce industry internship - ROE
- Students research locations and secure internship
- Internship
- Final products: Paper, Poster, MFT in Biology

- Bioscience BS majors have completed internships at over 70 sites in FL
- Employers indicate 100% satisfaction with intern preparation for employment and/or advancement
- Since program inception (spring 2013), 25 offers of full-time employment as a direct result of internship experience
- Over 75% of MDC program graduates apply to professional or graduate programs, with the majority gaining admission within 2 years of degree completion.