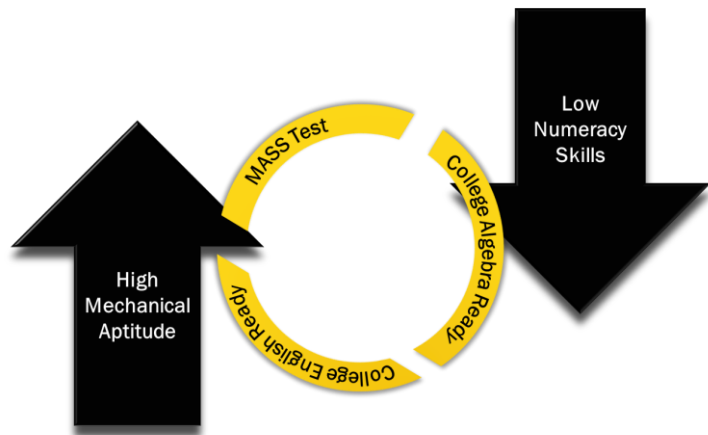


Overcoming Barriers to Increase Enrollment & Completion

- History**
- Limited diversity in nuclear industry
 - No Increase to diversity despite industry efforts
 - Data driven analysis at college level

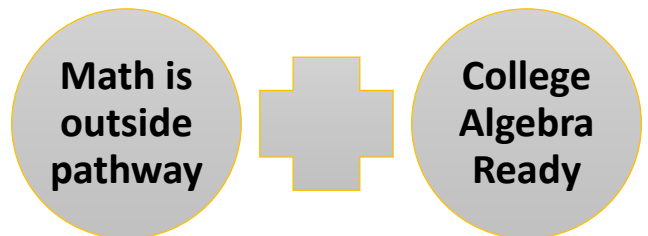
Outcome of Data Analysis

- Underserved applicants have mechanical aptitude
- Underserved applicants lack numeracy skills



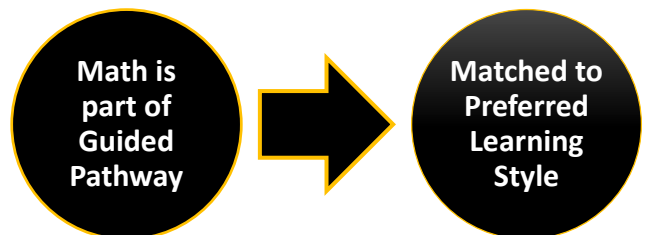
Current Model

- Math is taken outside of the guided pathway
- Applicants have to be College Algebra Ready



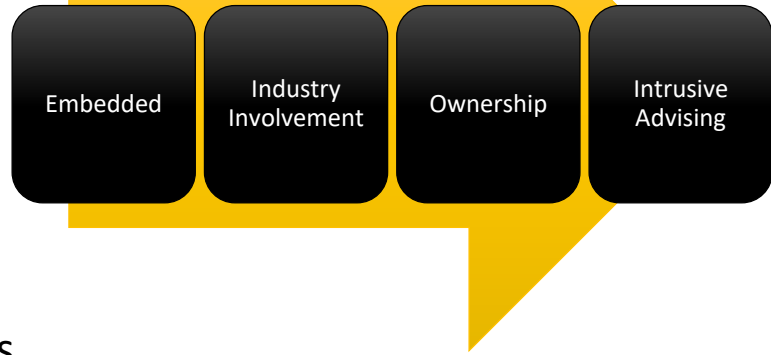
Nuclear Math Model

- Math is as part of the guided pathway
- Math is matched to students preferred learning style



Making Math Relevant

- Embedded in pathway
- Industry Reps talk about relevance on Day 1
- Students take ownership with signed MOU
- Advisor works with coordinator to track progress



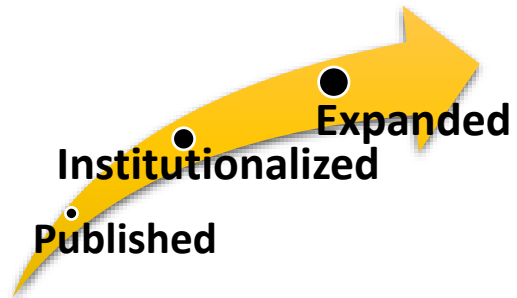
Results of Pilot

- 8 of 9 students passed Math with a B or better
- 8 of 9 students passed ALL their classes
- All 5 African American Students passed
- All 8 that passed enrolled fulltime for next semester



Dissemination & Impact

- Published in Diversity Magazine
- Replicated and Institutionalized
- Expanded to other Programs



Next Steps

- Data Analytics
- From routine Maintenance to Condition Based Maintenance
 - ✓ Firewalls
 - ✓ Inbound/Outbound Traffic Rules
 - ✓ Calibration
 - ✓ Statistics
 - ✓ Data Storage & structure
 - ✓ Logging Events
 - ✓ Drift
 - ✓ Process Control
 - ✓ Operating Procedures