

# STEM

## Purpose

4-year CAP intended to develop a high impact practice which increases STEM-related student success

## Goals

Strategic Direction: Empowering Students for Success

Goal A: Increase student retention, persistence, and completion

Goal B: Increase outreach to our community and provide greater access to our college

Goal C: Provide students with quality high impact instruction and support

Goal D: Align with K-12 partners and transfer institutions in career and academic pathways

## Measures

- Number of STEM high-risk courses (Fall & Spring)
- List of STEM high-risk courses (Fall & Spring)
- Fall-to-Fall FTIC persistence rates for STEM students (FT+PT)
- 4-year FTIC STEM graduation rates (FT+PT)
- Percentage of overall degrees/certificates awarded in STEM (break-down by ethnicity, gender, veteran status)
- 6-year FTIC STEM transfer rates (FT, both in state and U.S.)
- STEM Pathways Model Assessment results (Science Foundation Arizona)

## Outcomes

- \$3.875 million (SEEDS Grant), \$3,000 (SENCER Grant)
- Potential NSF funding through LS-AMP district-wide application, PAC proposals (KickStarter Initiative)
- One-Stop STEM Center design being finalized
- Plan developed for interdisciplinary, collaborative approach to undergraduate research
- Faculty identified for 3 projects of discovery
- PAC co-hosted 2nd CORE4 STEM Family Day with SAHCC (175 attendees/140 students, sessions in 8 disciplines, helicopter, drones, resource fair, robotics teams)
- CORE4 STEM surveys collected online
- 3 STEM/CTE summer camps approved (middle school, high school, and incoming college freshmen)
- STEM baseline data established utilizing the broadest definition of STEM
- STEM high-risk course meeting (travel, equipment, peer mentor program)
- Discussions about general A.S. degree
- Hiring process for Sr. Statistical Research Specialist, Academic Program Coordinator, Sr. Advisor, Peer Advisors

## Next Steps

- Changes for next year
  - » Onboard data and One-Stop STEM Center personnel
  - » Collaborate with established outside industry advisory board
  - » Promote industry knowledge of college programs
  - » Include K-12 representation on advisory board
- Year 2
  - » Renovate One-Stop STEM Center
  - » Onboard Academic Program Coordinator to oversee the Center
  - » Create and implement a project of discovery
  - » Engage industry partners in creating classroom projects, on-site field trips
  - » Offer programs which promote Engineering
  - » Begin tracking the impacts of students interventions for effectiveness
  - » Offer STEM professional development opportunities for K-12 educators that are building a STEM pipeline into PAC
  - » Use technology to create a social media awareness campaign for STEM
  - » Track transfer and workforce data for STEM students