PRINCIPLE 2

Students complete their first college-level mathematics requirement in their first year of college.

Mathematics Pathways at Austin Community College
- Defined pathways through developmental math exist for both STEM and non-STEM students with various acceleration options.

STEM
- Elementary Algebra (MATD 0370)
- Intermediate Algebra (MATD 0390)
- College Algebra or Math for Business and Economics

STEM
- Developmental Math Emporium Model (MATD 0421)
- College Algebra or Math for Business and Economics

Non-STEM
- Developing Mathematical Thinking (MATD 0385)
- College Math or Elementary Statistics

Non-STEM
- Foundations of Mathematical Reasoning (MATD 0455)
- Elementary Statistics with Math for Statistics (MATD 0166)

Student Enrollment in Mathematics Pathways
- Austin Community College actively defined appropriate math courses aligned with degree plans and transfer institution requirements.
- Enrollment in STEM and non-STEM pathways evolved to reflect changes in gateway math choices.

Measuring Impact
- Between Fall 2012 and Spring 2013, 77.7% of students who enrolled in both MATD 0385 and MATH 1332 earned a college credit in the spring.
- Students who completed MATD 0385 prior to MATH 1332 outperformed their college-ready peers who enrolled directly in MATH 1332.
- Data disaggregated by race/ethnicity, gender, aid receipt, and full/part-time status showed the same results: MATD 0385 students had better outcomes in MATH 1332.