

FOUNDATIONS OF COLLEGE MATHEMATICS AT TALLAHASSEE COMMUNITY COLLEGE

Bridging the gap between high school and
college readiness

OVERVIEW

- Before Enrolling at Tallahassee Community College (TCC)
- Advising and Initial Diagnostic Assessment
- Foundations of College Mathematics Program
- College Mathematics

BEFORE ENROLLING AT TCC

- ▶ If students want to be college ready
 - ▶ Successful in Algebra II (above Alg II is better)
 - ▶ Have a good idea of a career field/path
 - ▶ Career Interests
 - ▶ SIGI³ (<https://www.tcc.fl.edu/Current/CareerCenter/Pages/Career-Exploration.aspx>)
 - ▶ Florida Interests (<https://www.flchoices.org>)
- ▶ Remediation and Diagnostic Resources
 - ▶ The TCC Developmental Mathematics Division
 - ▶ <https://www.tcc.fl.edu/Current/Academics/DM/Pages/default.aspx>

ADVISING FOR SUCCESS

- ▶ Advisors use several metrics to determine appropriate placement
 - ▶ Test scores: ACT, SAT, PERT
 - ▶ Overall GPA
 - ▶ Highest level math course completed successfully, and math GPA
 - ▶ Career interests
- ▶ Right pathway for success
 - ▶ State defined Meta-Majors
 - ▶ https://www.tcc.fl.edu/Current/StudentSuccess/Pages/TCC-SOAR_Meta-Majors_MAPS.aspx

PATHWAYS FOR SUCCESS

- ▶ State defined Meta-Majors
 - ▶ A meta-major is a collection of academic programs that have common or related content.
 - ▶ Eight meta-majors defined by the state
 - ▶ Helps students set goals
 - ▶ Research shows improved student success when students have clear pathway
 - ▶ Math often the “biggest” determiner
 - ▶ https://www.tcc.fl.edu/Current/StudentSuccess/Pages/TCC-SOAR_Meta-Majors_MAPS.aspx

DIAGNOSING FOR SUCCESS

- ▶ Initial Diagnostic Assessment
 - ▶ ALEKS platform
 - ▶ Based on our curriculum
 - ▶ Designed to inform students
 - ▶ What they know and what they need to remediate/learn

FOUNDATIONS OF COLLEGE MATHEMATICS

- ▶ Two Levels
 - ▶ Pre-Algebra (MAT0018, MAT0022, MAT0056)
 - ▶ Beginning Algebra (MAT0028, MAT0058)
 - ▶ In the works: Quantitative Reasoning (MAT0027)
- ▶ Beginning Statistics (MAT0029, Statway Pathway)
 - ▶ Alternate pathway for non-STEM students

FOUNDATIONS OF COLLEGE MATHEMATICS

- ▶ Beyond traditional instruction
 - ▶ Modular – MAT0056/58
 - ▶ Compressed – MAT0022
 - ▶ Contextualized – MAT0018/28
 - ▶ Statway – MAT0029
- ▶ Customized curriculum designed specifically for students at TCC

COLLEGE MATHEMATICS

- ▶ MAT1033, MGF1106/1107
 - ▶ All are “gateway” courses
- ▶ Statway II (STA2023)
 - ▶ Students who need statistics for program of study but not algebra focused
- ▶ STEM vs Non-STEM path