MATHEMATIC PATHWAYS AT ST. LOUIS COMMUNITY COLLEGE

STEM – PREP
Course: Pre-Calculus A (or any course with Pre-Calculus A as a pre-requisite)
designed for students going into:
Science
Technology
Engineering
Mathematics

STATISTICS
Course: Introductory Statistics
designed for students going into:
Social Sciences
Health Sciences
Nursing
Business
Criminal Justice

QUANTITATIVE REASONING
Course: Applications of College Mathematics
designed for students going into:
Liberal arts
Fine arts
Humanities

PATHWAYS are designed for students seeking a college-level mathematics course as part of their general education requirements and meta-major.
COURSE DESCRIPTIONS

PRE-CALCULUS A
This pre-calculus A course includes the following topics: theory of equations; systems of equations; functions and graphs including polynomial, rational, exponential, and logarithmic; matrices; sequences and series; and the binomial theorem. Applications will be primarily from science.

INTRODUCTORY STATISTICS
This course introduces the student to the elementary mathematics of descriptive statistics, probability, and statistical inference. Topics include methods of data collection, organization, and representation, measures of center and variation, elementary probability theory, probability distributions, the central limit theorem, confidence intervals, hypothesis testing, correlation, and regression analysis.

APPLICATIONS OF COLLEGE MATHEMATICS
This college-level mathematics course is offered for students pursuing non-STEM (Science, Technology, Engineering, and Mathematics) degrees and career paths. The course focuses on mathematical reasoning and the solving of real-life problems. The following six topics will be covered: sets, logic, consumer mathematics, probability, statistics, proportional reasoning and modeling with global data. This course is designed to fulfill general education requirements.