





**MATH 025 Introduction to Statistics****(4)***Class Hours:* 72 Lecture

P/NP

*Prerequisite(s):* MATH 063, MATH 064, or MATH 052 (Required, Previous or concurrent).*Transfers to:* UC/CSU*C-ID:* MATH 110

## Introduction to Statistics

MATH 025 is an introduction to the use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-square and t-tests, and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.

**MATH 045 Contemporary Math****(3)***Class Hours:* 54 Lecture*Prerequisite(s):* MATH 063 or MATH 064 (Required, Previous or concurrent).*Advisory(s):* ENG 001A (Recommended, Previous or concurrent).*Transfers to:* CSU

## Contemporary Math

MATH 045 is a college level liberal arts mathematics course surveying a collection of topics including Management Science, Social Choice, Statistics and Growth and Symmetry.

**MATH 052 Statistical Literacy****(4)***Class Hours:* 54 Lecture | 54 Laboratory*Prerequisite(S):* MATH 100

## Statistical Literacy

MATH 052 is an intensive course that prepares students for transfer-level statistics. Topics include modeling with linear functions, evaluating expressions related to statistical formulas, graphical representation of data, numerical descriptive statistics, sampling methods, probability, and discrete probability distributions. This course is appropriate for students majoring in fields other than math, science, computer science, engineering, or business.

**MATH 061 Elementary Algebra****(5)***Class Hours:* 90 Lecture

P/NP

*Prerequisite(s):* MATH 100, or MATH 101

## Elementary Algebra

MATH 061 is the first course in a two semester sequential elementary and intermediate algebra program. Topics for elementary algebra include arithmetic review, solving linear equations and inequalities in one variable, graphing linear equations and inequalities in two variables, solving linear systems, operations with polynomials, solving equations by factoring, operations with rational expressions, and addition of radical expressions.

**MATH 063 Intermediate Algebra****(5)***Class Hours:* 90 Lecture

P/NP

*Prerequisite(s):* MATH 061

## Intermediate Algebra

MATH 063 is the second course in a two semester sequential elementary and intermediate algebra program. Topics for intermediate algebra include factoring, solving quadratic, rational and radical equations, inequalities, integer and rational exponents, graphing conics, functions, scientific notation, and applications.

**MATH 064**                      **Elementary & Intermediate Alg**                      (5)  
*Class Hours: 90 Lecture*                      P/NP

Elementary and Intermediate Algebra

MATH 064 is designed for students who require a background of elementary algebra and intermediate algebra before taking further mathematics courses. This course includes the fundamental concepts and operation of algebra with problem solving skills emphasized throughout. Topics include properties of real numbers, solving linear equations and inequalities, graphing linear equations and inequalities, finding equations of lines, polynomials, factoring, simplifying square roots, and solving quadratic equations using the quadratic formula.

**MATH 065**                      **Algebra for STEM**                      (5)  
*Class Hours: 90 Lecture*

Algebra for STEM

MATH 065 is designed to prepare students for precalculus, and includes the study of equations and inequalities, functions, linear functions, polynomial and rational functions, exponential and logarithmic functions, systems of equations and inequalities, and analytic geometry.

**MATH 110A**                      **Supp CRSE for Struct & Concep**                      (2)  
*Class Hours: 36 Lecture*

Supp Crse for Struct & Concepts in Math.

MATH 110A is designed as a corequisite support course for students that are concurrently enrolled in the parent course, MATH 010A, and are placed into this course using multiple measures. The parent course is designed for prospective elementary school teachers. This course focuses on the necessary supporting skills for the study of the development of quantitative reasoning and the real number systems and subsystems.

**MATH 115**                      **Support Course for Precalculus**                      (2)  
*Class Hours: 36 Lecture*

Support Course for Precalculus

MATH 115 is designed as a corequisite support course for students that are concurrently enrolled in the parent course, MATH 015, and are placed into this course using multiple measures. It includes content from MATH 015 and from the prerequisite material.

**MATH 125**                      **Support CRSE for Intro to Sta**                      (2)  
*Class Hours: 36 Lecture*

Support Crse for Intro to Statistics

MATH 125 is a corequisite support course for students that are concurrently enrolled in MATH 025. The course is additional support hours designed to enhance the course performance and increase success.

**MATH 145**                      **Support Course for Contemp Mat**                      (2)  
*Class Hours: 36 Lecture*

Support Course for Contemp Mat

MATH 145 is designed as a corequisite support course for students that are concurrently enrolled in the parent course, MATH 045, and are placed into this course using multiple measures. It includes content from MATH 045 and from the prerequisite material.