

MATH 72 — Algebra With Applications II **5 Units**
Degree Appropriate

90.00 hours lecture.

Prerequisite: MATH 52

Limited to students who have successfully completed MATH 52. Features practical applications of complex fractions; solving rational equations and inequalities; exponents and radicals; solving quadratic equations and inequalities; complex numbers; the study of linear functions, quadratic functions, inverse functions, exponential and logarithmic functions, and the algebra of functions; solving systems of non-linear equations and inequalities; conics; sequences and series; and applications involving rational and quadratic equations, variation and linear, quadratic, exponential and logarithmic functions. A student must complete both MATH 52 and MATH 72 to have taken the equivalent of Math 71, and both in combination will satisfy the requirement for an A.S. or A.A. degree.

MATH 76 — Intermediate Algebra Review **2 Units**
Non-Degree Credit

(May be taken two times for credit.)

(May be taken for Credit/No Credit only.)

36.00 hours lecture.

Prerequisite: Completion of intermediate algebra course in high school ("C" or better) or MATH 71

Designed for students who have current knowledge of intermediate algebra but are in need of a refresher course. Reviews important concepts that are necessary for more advanced course work. Students who repeat will achieve further improvement in algebraic skills and develop confidence with math abilities.

MATH 96 — Strategies for Math Success **1 Unit**
Pre-Collegiate

(May be taken two times for credit.)

(May be taken for Credit/No Credit only.)

18.00 hours lecture.

Learning tools, plans and proper perspectives for math learning improvement. Use of natural intelligence strengths to simplify/optimize your mathematical/educational experience. Overcome test anxiety and enhance testing abilities. Course is appropriate for all levels of mathematics students. Students who repeat this course will improve skills through further instruction and practice.

MATH 99 — Special Projects in Mathematics **2 Units**
Degree Appropriate, CSU

(May be taken four times for credit.)

36.00 hours lecture.

In order to offer selected students recognition for their academic interests and ability and the opportunity to explore their disciplines to greater depth, the various departments from time to time offer Special Projects courses. The content of each course and the methods of study vary from semester to semester and depend on the particular project under consideration. Students who repeat this course will improve skills through further instruction and practice.

MATH 100 — Survey of College Mathematics **3 Units**
Degree Appropriate, CSU, UC

(CAN MATH 2)

54.00 hours lecture.

Prerequisite: [MATH 61 or two semesters of high school plane geometry (C or better)] AND [MATH 71 or MATH 71B or MATH 72 or four semesters of high school algebra (C or better)]

Introduction to mathematical methods and reasoning. Topics include: set theory, logic, counting methods, probability and statistics, with additional topics selected from numeration and mathematical systems, number theory, geometry, graph theory and mathematical modeling.

MATH 110 — Elementary Statistics **3 Units**
Degree Appropriate, CSU, UC

(CAN STAT 2)

54.00 hours lecture.

Prerequisite: MATH 71; OR MATH 71B; OR MATH 72; OR a passing score on current department placement test

Emphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance.

MATH 110H — Elementary Statistics – Honors **3 Units**
Degree Appropriate, CSU, UC

(CAN STAT 2)

54.00 hours lecture.

Prerequisite: MATH 71; OR MATH 71B; OR MATH 72; OR a passing score on current department placement test. Acceptance into the Honors Program.

Emphasis is placed on the understanding of statistical methods. Descriptive analysis of sample statistics, distribution of discrete and continuous random variables, estimation theory, tests of hypotheses, regression, correlation and analysis of variance. An honors course designed to provide an enriched experience for accelerated students. Students may not receive credit for both MATH 110 and MATH 110H.

MATH 120 — Finite Mathematics **3 Units**
Degree Appropriate, CSU, UC

Fall Semester

(CAN MATH12)

54.00 hours lecture.

Prerequisite: MATH 71; OR MATH 71B; OR MATH 72; OR four semesters of high school algebra (C or better) and passing score on current department placement test

Mathematics for Business, Social Science and Biological Science majors. Topics include linear programming, matrix theory, probability, statistics, stochastic processes, Markov chains, and math of finance.

MATH 130 — College Algebra **3 Units**
Degree Appropriate, CSU, UC

(CAN MATH10)

54.00 hours lecture.

Prerequisite: MATH 71; OR MATH 71B; OR MATH 72; OR four semesters of high school algebra (C or better) and passing score on current department placement test

A study of real numbers and sets, algebraic functions and relations, radicals and exponents, linear and quadratic equalities and inequalities, exponential and logarithmic functions, systems of linear and quadratic equations, complex numbers, series, theory of equations, mathematical induction and binomial formula.