

CGS MATHEMATICS (CGS MAT)

CGS Mathematics Courses

CGS MAT 75X Math Success Strategies

0 cr.

Highly interactive format providing mathematics instruction and instilling study skills and strategies for succeeding in mathematics courses.

Prerequisites: none.

Course Rules: Previously CGS MAT 99. Fee for 3 credits assessed; 3 credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.

Last Taught: Spring 2025, Fall 2024, Spring 2024, Fall 2023.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS MAT 101X Introduction to College Algebra

3-4 cr.

UW COLLEGE COURSES ONLINE AND ASSOCIATE FLEX PROGRAM ONLY. Algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs, and analytic geometry.

Prerequisites: grade of C or better in Elementary Algebra or CGS MAT 100A or placement based on placement test score.

Last Taught: Summer 2020, Spring 2020, Fall 2019.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS MAT 102X Mathematical Literacy for College Students II

3 cr.

Continuation of CGS MAT 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.

Prerequisites: Math Placement Level 10 or concurrent enrollment in CGS MAT 92(P).

Course Rules: Students with a Math Placement Level of less than 10 must also enroll in the corresponding section of CGS MAT 92.

Last Taught: Spring 2025, Fall 2024, Summer 2024, Spring 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS MAT 105X Introduction to College Algebra

3 cr.

Algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs, and analytic geometry.

Prerequisites: Math Placement Level 20 or grade of C or better in CGS MAT 98(P).

Course Rules: Counts as repeat of CGS MAT 108.

Last Taught: Spring 2025, Fall 2024, Summer 2024, Spring 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS MAT 110X College Algebra

3 cr.

Function and sequence; linear and nonlinear functions and graphs: logarithmic/exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections, mathematical induction, matrix solution of linear systems & Cramer's rule.

Prerequisites: A grade of C or better in CGS MAT 103B or CGS MAT 101 or placement based on placement test score.

Course Rules: Equivalent to MATH 116.

Last Taught: Summer 2020, Spring 2020, Fall 2019.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS MAT 116X College Algebra

3 cr.

Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics.

Prerequisites: Math Placement Level 20 or grade of C or better in CGS MAT 94(P), CGS MAT 95(P), or CGS MAT 98(P).

Course Rules: Two credits may be used to repeat two credits of CGS MAT 115.

Last Taught: Spring 2020, Fall 2019.

Current Offerings: <https://catalog.uwm.edu/course-search/>

CGS MAT 215X Elementary Statistical Analysis

3 cr.

Elementary probability theory; descriptive statistics; sampling distributions; basic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases.

Prerequisites: Math Placement Level 30 or higher, or a grade of C or better in CGS MAT 102, CGS MAT 103, CGS MAT 105, CGS MAT 108, CGS MAT 115, or CGS MAT 116.

General Education Requirements: MS

Last Taught: Summer 2025, Spring 2025, Fall 2024, Summer 2024.

Current Offerings: <https://catalog.uwm.edu/course-search/>