

Mathematics Developmental (MAT)

MAT 0920 Math Fundamentals 3

* Prerequisite(s): Appropriate placement by a placement exam (within two years).

Designed for students requiring basic math review. Reviews basic operations with whole numbers and fractions. Includes basic operations involving decimals, percents, ratios, rates, and basic operations involving physical measurements. Lab access fee of \$3 applies.

MAT 0950 Foundations for Algebra 4

* Prerequisite(s): One of the following (within two years): MAT 0920 with a grade of C- or higher; or appropriate placement by a placement exam.

Designed for students requiring basic math and pre algebra instruction. Covers basic operations for number systems up to and including real numbers. Includes fractions, ratios, proportions, decimals, exponents, roots, linear equations, and polynomial expressions. May be delivered online. Lab access fee of \$3 applies.

MAT 0980 (Cross-listed with: MAT 0990) Integrated Pre Algebra and Beginning Algebra 5

* Prerequisite(s): Appropriate placement (within two years) by a placement exam.

An accelerated preparatory class for MAT 1010, Intermediate Algebra, covering Pre-Algebra and Beginning Algebra in one semester. Includes real numbers, algebraic expressions, polynomials, solving and graphing linear equations and inequalities, factoring, quadratic equations, rational expressions and equations, ratios, percents, systems of linear equations, roots and radicals, and an introduction to complex numbers. May be delivered online. Lab access fee of \$3 applies.

MAT 0990 (Cross-listed with: MAT 0980) Introductory Algebra 4

* Prerequisite(s): One of the following (within two years): MAT 0950 or MAT 0980 with a C- or higher; or appropriate placement by a placement exam.

For students who have completed a minimum of one year of high school algebra or who lack a thorough understanding of basic algebra principles. Teaches integers, solving equations, polynomial operations, factoring polynomials, systems of equations and graphs, rational expressions, roots, radicals, complex numbers, quadratic equations and the quadratic formula. Prepares students for MAT 1010, Intermediate Algebra. May be delivered hybrid and/or online. Lab access fee of \$3 applies.

MAT 1000 Integrated Beginning and Intermediate Algebra 5

* Prerequisite(s): One of the following (within department time limits): MAT 0950 or MAT 0980 with a C or higher; or appropriate placement by a placement exam.

Teaches Beginning and Intermediate Algebra in one semester. Covers linear, quadratic, and rational expressions, equations, and functions; systems of equations; logarithms; exponents; graphing; and problem solving. Prepares students for MAT 1030, STAT 1040, MATH 1050, and MATH 1090. May be delivered hybrid and/or online.

MAT 1010 Intermediate Algebra 4

* Prerequisite(s): One of the following (within two years): MAT 0980 or MAT 0990 with a grade of C- or higher; or appropriate placement by a placement exam.

Expands and covers in more depth basic algebra concepts introduced in Beginning Algebra. Includes linear and quadratic equations and inequalities, polynomials and rational expressions, radical and exponential expressions and equations, complex numbers, systems of linear and nonlinear equations, functions, conic sections, and real world applications of algebra. May be delivered hybrid and/or online.

MAT 101R Individualized Mathematics Review 1

* Prerequisite(s): Any MAT or MATH course

Designed as a follow-up to MATH 100R for students who desire to make further progress in their math placement through individualized instruction. Includes a diagnostic test of mathematical knowledge base which is used to develop an individualized learning plan. Provides targeted intervention to increase foundational mathematics knowledge. May be Graded Credit/No Credit. May be repeated for a maximum of 3 credits. Lab access fee of \$3 applies. Canvas Course Mats \$74/McGraw

MAT 1030 Quantitative Reasoning 3

* Prerequisite(s): One of the following (within department time limits): MAT 1000 or MAT 1010 with a grade of C or higher; or appropriate placement by a placement exam.

Teaches how to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions. May be delivered online.

MAT 1035 Quantitative Reasoning with Integrated Algebra 6

* Prerequisite(s): One of the following (within department time limits): MAT 0950 with a grade of C or higher; appropriate placement by a placement exam

Teaches students to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions. Provides the necessary algebraic content taught in context.

MAT 103H Quantitative Reasoning 3

* Prerequisite(s): One of the following (within department time limits): MAT 1000 or MAT 1010 with a grade of C or higher; or appropriate placement by a placement exam.

Teaches how to communicate, interpret, and analyze quantitative information found in the media and in everyday life to make sound personal, professional, and civic decisions. Covers the material at an honors level. May be delivered online.

MAT 1110 Foundations of Mathematical Thinking and Reasoning 3

* Prerequisite(s): One of the following (within two years): MAT 1000 or MAT 1010 with a grade of C- or higher; or appropriate placement by a placement exam.

Reviews and reflects on mathematics taught in K-12 to learn mathematical thinking and reasoning. Includes six topics: (1) Early mathematics experiences and mathematics anxiety (2) Why and how mathematics is as important as language literacy (3) The language features of mathematics, and mathematics as a way of thinking (4) Making mathematical arguments: mathematical structure and reasoning (5) Different ways of working with mathematics: mathematical cognition and methodology (6) Mathematical problem solving.

Course Descriptions

MAT 240R

Math Mentor Leadership Practicum

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* Prerequisite(s): MAT 1000, MAT 1010, MAT 1030, or MAT 1035 with a B+ or higher.

Provides the theoretical base and hands-on training in leadership and math mentoring techniques as well as an understanding of and ability to apply listening, teaching, and leadership competencies. Assists student leaders in further developing their own self-awareness, learning skills and strategies, and explores methods for facilitating these in others. Provides an avenue for goal development, fulfillment and performance among student leaders and the individuals they serve. Emphasizes building relationships with students, teaching life skills and learning strategies, and guiding students through the college experience. May be repeated for a maximum of 8 credits towards graduation.