MISSION COLLEGE

ADDENDUM TO THE 2018-2019 CATALOG – EFFECTIVE NOVEMBER 20, 2018
Addendum contains new/revised math courses and one reading course
Crosswalk of Subject Codes: The subject codes for some courses have changed due to a change in our student information system (ex: ACCTG 001A to ACC 001A). This list is a complete crosswalk of old to new subject codes. Courses with new subject codes are considered equivalent to courses with old subject codes for the purpose of degree/certificate completion.

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**MATHEMATICS (MAT)**

**MAT 000C • INTERMEDIATE ALGEBRA  5.0 UNITS**

Total Lecture: 90 hours  
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054  
Prerequisite: Appropriate placement by Multiple Measures, or MAT 903 or MAT 903M/903MX.

Course topics include linear systems and inequalities, absolute value equations and inequalities, rational exponents, radicals, complex numbers, quadratic equations, graphical representations, functions and inverses, logarithmic and exponential functions, conic sections, sequences and series, and applied problems. This course may also be offered via distance learning. Pass/No Pass Option.

**MAT 000CG • MATHEMATICS FOR THE ASSOCIATE DEGREE STUDENT  3.0 UNITS**

Total Lecture: 54 hours  
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054  
Prerequisite: Appropriate placement by Multiple Measures, or MAT 903 or MAT 903M/903MX

This course is designed to satisfy the graduation competency requirement in mathematics for the associate degree. Student follow the history of mathematics and look at landmarks in history and the mathematics of the time. Topics include the history of number systems and associated calculating algorithms, rational and irrational numbers from development to the present, number theory, two and three dimensional geometric shapes and their connectedness. The course stresses both historical development and critical thinking trying to explain the history of mathematics. This course does not substitute for Math C prerequisite for transfer level math classes. Pass/No Pass Option.

**MAT 000CM • INTERMEDIATE ALGEBRA (MAPS)  5.0 UNITS**

Total Lecture: 90 hours  
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054  
Prerequisite: Appropriate placement by Multiple Measures, or MAT 903 or MAT 903M/903MX

Corequisite: MAT 00CMX must be taken concurrently with MAT 000CM.  
MAT 000CM is the second course in the MAPS Algebra sequence that will prepare students to meet the math requirement for the associate degree. The MAPS program is designed for the student who has had difficulty in mathematics. Extended classroom hours in this sequence allow students to participate in various conceptual activities to build a stronger foundation in the fundamental concepts. Special attention is paid to presenting the material in various modalities to meet the needs of the students. Course topics include linear systems and inequalities, absolute value equations and inequalities, rational exponents, radicals, complex numbers, quadratic equations, graphical representations, functions and inverses, logarithmic and exponential functions, conic sections, sequences and series, and applied problems. Concurrent enrollment in MAT 00CMX is mandatory. Pass/No Pass Option.

**MAT 000D • TRIGONOMETRY  3.0 UNITS**

Total Lecture: 54 hours  
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054  
Prerequisite: Appropriate placement by Multiple Measures, or MAT 000C or MAT 000CM/00CMX

Acceptable for credit: California State University  
Course topics include trigonometric functions, including applications to triangles, circular functions, radian measure, graphs, polar coordinates, trigonometric identities, inverse trigonometric functions, vectors, and complex numbers. Pass/No Pass Option. C-ID # MATH 955. CSUGE: B4.

**MAT 000G • MATHEMATICS FOR THE LIBERAL ARTS STUDENT  4.0 UNITS**

Total Lecture: 72 hours  
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054  
Prerequisite: Appropriate placement by Multiple Measures; or MAT 000C or MAT 000CM

Acceptable for credit: University of California, California State University  
This course fulfills the graduation competency requirement for Associate degree and the general education requirement in mathematics for the CSU system. It introduces critical thinking techniques in areas of mathematics that include, but not limited to sequences and series, probability and statistics, countable and uncountable sets, cryptography and number theory, history of mathematics, mathematics in art and nature, the Pythagorean Theorem, and methods of proof, and game theory. There is an emphasis on general problem solving techniques as the class explores mathematics that may will be unfamiliar to most students, and communicate mathematics through class activities and write-ups. Pass/No Pass Option. CSUGE: B4; IGETC: 2A.
MAT 001 • COLLEGE ALGEBRA 4.0 UNITS
Total Lecture: 72 hours
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054
Prerequisite: Appropriate placement by Multiple Measures, or MAT 000C or MAT 000CM/00CMX
Acceptable for credit: University of California, California State University
This is a college-level course in preparation for the Calculus sequence. Its contents include real and complex number systems, polynomials, algebraic fractions, exponents and radicals, linear and quadratic equations, simultaneous equations, inequalities, functions, theory of equations, exponential and logarithmic equations, sequence and series, induction and the binomial theorem. This course may be offered via distance learning. Pass/No Pass Option. C-ID # MATH 955. CSUGE: B4; IGETC: 2A.

MAT 002 • PRECALCULUS AND TRIGONOMETRY 6.0 UNITS
Total Lecture: 108 hours
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054
Prerequisite: Appropriate placement by Multiple Measures, or MAT 000C or MAT 000CM/00CMX
Acceptable for credit: University of California (4 units only), California State University.
NOTE: UC credit may be limited. See a counselor.
This is an intensive course covering those topics traditionally found in the separate courses of college algebra (MAT 001) and trigonometry (MAT 000D). This course is designed for the highly motivated and very well prepared student who desires to fulfill the requirements of MAT 000D and MAT 001 in one semester. It prepares the student for the Calculus 003A/B sequence. Pass/No Pass Option. CSUGE: B4; IGETC: 2A.

MAT 010 • ELEMENTARY STATISTICS 4.0 UNITS
Total Lecture: 72 hours
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054
Prerequisite: Appropriate placement by Multiple Measures, or MAT 000C or MAT 000CM/00CMX.
Acceptable for credit: University of California, California State University
Students study and demonstrate knowledge and understanding of descriptive and inferential statistics including data analysis, correlation and linear regression, probability, probability distributions and assorted hypothesis testing. Particular emphasis is placed on applications. Current statistical computer packages are used. This course may also be offered via distance learning. Pass/No Pass Option. C-ID # MATH 110. CSUGE: B4; IGETC: 2A.

MAT 010H • ELEMENTARY STATISTICS HONORS 4.0 UNITS
Total Lecture: 72 hours
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054
Prerequisite: Appropriate placement by Multiple Measures, or MAT 000C or MAT 000CM/00CMX
Acceptable for credit: University of California, California State University
This course is the honors version of the Elementary Statistics course. The course provides students with a comprehensive introduction to statistical methods and research. Topics include descriptive and inferential statistics, correlation and linear regression, probability, probability distributions and assorted hypothesis testing. Particular emphasis is placed on applications and data analysis. Current statistical computer packages are used. Students may not receive credit for both MAT 010 and MAT 010H. Enrollment in the Honors Transfer Project is required. This course may also be offered via distance learning. Pass/No Pass Option. C-ID # MATH 110. CSUGE: B4; IGETC: 2A.

MAT 012 • CALCULUS FOR BUSINESS 4.0 UNITS
Total Lecture: 72 hours
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054
Prerequisite: Appropriate placement by Multiple Measures, or MAT 000C or MAT 000CM/00CMX
Acceptable for credit: University of California, California State University
Course topics include the intuitive concept of a limit, and simple techniques of differential and integral calculus and their most common applications in business, social science and biology. This course is suitable for business, biology, or social science majors. This course is not equivalent to MAT 003A. Pass/No Pass Option. C-ID # MATH 140. CSUGE: B4; IGETC: 2A.

MAT 900DX - MATH SKILLS FOR SUCCESS IN TRIGONOMETRY 2.0 UNITS
Total Lecture: 36 hours
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054
Prerequisite: MAT 000C or MAT 000CM/00CMX, or appropriate placement by Multiple Measures.
Corequisite: MAT 000D
Math Skills for Success in Trigonometry is for students concurrently enrolled in MAT 000D. In this course students will review algebraic and basic geometric topics that underlie Trigonometry concepts and practice reading skills and other study skills that promote success in MAT 000D. Concurrent enrollment in MAT 000D is required. Pass/No Pass Option.
MAT 901X - MATH SKILLS FOR SUCCESS IN COLLEGE ALGEBRA  2.0 UNITS
Total Lecture: 36 hours
Advisory: Eligibility for ENG 001A or ENG 001AX, and REA 054
Prerequisite: MAT 000C or MAT 000CM/00CMX, or appropriate placement by Multiple Measures.
Corequisite: MAT 001

Math Skills for Success in College Algebra is for students concurrently enrolled in MAT 001. In this course students will review algebraic and basic geometric topics that underlie College Algebra concepts and practice reading skills and other study skills that promote success in MAT 001. Concurrent enrollment in MAT 001 is required. Pass/No Pass Option.

MAT 903 • ELEMENTARY ALGEBRA  5.0 UNITS
Total Lecture: 90 hours
Prerequisite: Appropriate placement by Multiple Measures.

Course topics include operations with real numbers; properties of real numbers and signed exponents; solving and graphing linear equations; solving linear inequalities; functions; factoring polynomials; solving quadratic equations by factoring; simplifying rational expressions; solving rational equations; applications of linear, quadratic, and rational equations; and working with scientific notation. The course is designed for the student who has had no previous instruction in algebra, or for the student who needs a review of elementary algebra. This course may also be offered via distance learning. Pass/No Pass Option.

MAT 903M • ELEMENTARY ALGEBRA (MAPS)  5.0 UNITS
(NON-ASSOCIATE DEGREE COURSE)
Total Lecture: 90 hours
Prerequisite: Appropriate placement by Multiple Measures and an interview with the MAPS counselor; and
Corequisite: MAT 903MX must be taken concurrently with MAT 903M.

MAT 903M is the first course in the MAPS Algebra; it prepares students to meet the math requirement for the associate degree. The MAPS program is designed for the student who has had difficulty in mathematics. Extended classroom hours in this sequence allow students to participate in various conceptual activities to build a stronger foundation in the fundamental concepts. Special attention is taken to present the material in various modalities to meet the needs of the students. Course topics include operations with real numbers; properties of real numbers and signed exponents; solving and graphing linear equations; solving linear inequalities; functions; factoring polynomials; solving quadratic equations by factoring; simplifying rational expressions; solving rational equations; applications of linear, quadratic, and rational equations; and working with scientific notation. Concurrent enrollment in MAT 903MX is mandatory. Pass/No Pass Option.

MAT 903MX • ELEMENTARY ALGEBRA MAPS EXTRA  3.0 UNITS
Total Lecture: 54 hours
Prerequisite: Appropriate placement by Multiple Measures and an interview with the MAPS counselor; and
Corequisite: MAT 903M must be taken concurrently with MAT 903MX.

This lecture course is a co-requisite for MAT 903M. This course provides students with additional lecture time, and consequently additional required homework assignments, in order for them to fully engage and succeed in the enhanced and innovative learning strategies and activities employed by the MAPS program. Pass/No Pass Only.

MAT 909 • INTEGRATED STATISTICS I  5.0 UNITS
Total Lecture: 90 hours
Prerequisite: Appropriate placement by Multiple Measures.

This is the first of two courses in the Statway sequence. Students study and demonstrate concepts and methods of statistics with an emphasis on data analysis. Topics include methods for collecting data, descriptive statistics, introduction to simple linear regression, and basic concepts of probability. Particular emphasis is placed on applications. Current statistical technology packages are used. This sequence is recommended for students with majors that require no mathematics beyond freshman-level statistics. Successful completion of both MAT 909 and MAT 009 is required to satisfy CSU and UC transferability. Pass/No Pass Option.

MAT 912X - MATH SKILLS FOR SUCCESS IN CALCULUS FOR BUSINESS  2.0 UNITS
Total Lecture: 36 hours
Advisory: Eligibility for ENG 001A and REA 054
Prerequisite: Appropriate Placement; or MAT 000C; or MAT 000CM and MAT 00CMX.

Math Skills for Success in Calculus for Business is for students concurrently enrolled in MAT 012. In this course students will review algebraic and basic geometric topics that underlie Calculus for Business concepts and practice reading skills and other study skills that promote success in MAT 012. Concurrent enrollment in MAT 012 is required. Pass/No Pass Option.

READING (REA)

REA 054 • CRITICAL COLLEGE READING AND THINKING  3.0 UNITS
Total Lecture: 54 hours
Prerequisite: Appropriate placement by Multiple Measures OR REA 961.
Acceptable for credit: California State University

This course enables students to examine, develop and apply the concepts of critical reading, critical thinking, analysis, and logical reasoning in multi-discipline and multi-cultural academic sources. Emphasis is on critical reading, logical reasoning/thinking, reflective judgment, and problem-solving skills that lead to the ability to interpret, analyze, and critically evaluate college text, and advocate ideas. This course may also be offered via distance learning. Grade only. CSUGE: A3, E.