

MANUFACTURING TECHNOLOGY • MATHEMATICS

BEFORE ENROLLING IN DEGREE APPLICABLE COURSES, IT IS RECOMMENDED THAT YOU COMPLETE ENGL 001A AND READ 053.

062 • ROBOTIC SYSTEMS

3.0 units

Total Lecture 36.8 hours, Total Lab 72.0 hours
Advisory: DRAFT 081
Acceptable for credit: California State University

This course is a study of the evolution of robotics and a variety of robotic systems designed for specific automated applications. Student will study robotic control systems, arm geometry, and power systems. They will experience assembly, disassembly, operation and troubleshooting of small-scale electrical, hydraulic and pneumatic robotic systems. This course uses electromechanical systems to expose students to maintenance procedures and troubleshooting techniques used in the semiconductor manufacturing industry. *May be repeated one time. Pass/No Pass Option.*

063 • VACUUM SYSTEMS

2.0 units

Total Lecture 36.8 hours
Advisory: CET 050
Acceptable for credit: California State University

This course is a study of vacuum technology and vacuum systems. Topics include gas laws and properties, operation and applications of vacuum pumps, gauges and valves and systems leak detection. Students will experience assembly, disassemble, operation and troubleshooting of small-scale vacuum power systems. This course uses electromechanical systems to expose students to maintenance procedures and troubleshooting techniques used in the semiconductor manufacturing industry. *May be repeated one time. Pass/No Pass Option.*

080 • INTRODUCTION TO SEMICONDUCTOR MANUFACTURING TECHNOLOGY

4.0 units

Total Lecture 54.4 hours, Total Lab 54.4 hours
Acceptable for credit: California State University

Equivalent to SMT 80 at San Jose City College. Student is introduced to semiconductor industry, including systems and processes for producing semiconductor wafers. Student will learn "cleanroom" procedures and prepare for advanced courses on processes and tool sets. *Pass/No Pass Option.*

081 • INTERMEDIATE SEMICONDUCTOR MANUFACTURING

4.0 units

Total Lecture 54.4 hours, Total Lab 54.4 hours
Prerequisite: MFG 80
Acceptable for credit: California State University

This course studies the intermediate level processes, materials and equipment used in semiconductor manufacturing. A more focused study on implant, diffusion, photolithography, etch, and thin films will be explored. Students will be introduced to inventory control and flow. *Pass/No Pass Option.*

082 • ADVANCED SEMICONDUCTOR MANUFACTURING

4.0 units

Total Lecture 72.0 hours
Advisory: MFG 081
Prerequisite: MFG 080
Acceptable for credit: California State University

This course is a study of the advanced level processes, materials and equipment used in semiconductor manufacturing. Emphasis is placed on the equipment used in implant, diffusion, photolithography, etch, and thin films, based on one's previous study of semiconductor processes. *Pass/No Pass Option.*

MATHEMATICS (MATH)

DIVISION/DEPT: Mathematics
DEPT CHAIR: Linda Retterath
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<http://www.missioncollege.org/depts/math/>

Mathematics is a multifaceted subject of great beauty and application. The study of math explores some of the deepest puzzles that have ever been encountered and equips the student with a universal language used to study quantities and relationships in all fields. Through the study of mathematics, the student develops the ability to think logically and abstractly, as well as developing the problem-solving and computational skills necessary for success in any field of study.

Student Learning Outcomes:

The Mathematics Department at Mission College offers courses at three levels: basic skills, associate's degree, and transfer. Students completing mathematics courses will be able to:

Solve problems using mathematical terminology, symbols, operations, and techniques according to the course content and level of study;

Apply technology including calculators and computers to mathematical problems;

Improve computational and problem-solving skills;

Construct mathematical models of "real life" problems and draw conclusions from these models;

Formulate and test mathematical conjectures;

Adapt general mathematical techniques to course-specific problems;

Display logical thought process; and value mathematical ways of thinking.

Students will be assessed through written homework, quizzes, tests, and/or oral and written projects.

Career Options:

- Actuary
- Auditor
- Casualty Rater
- Demographer
- Epidermiologist
- Management Scientist
- Public Opinion Analyst
- Systems Analyst
- Appraiser
- Biometrician
- Controller
- Econometrician
- Financial Analyst
- Mathematician
- Statistician
- Teacher
- Assessor
- Budget Analyst
- Computer Programmer
- Engineering Analyst
- Investment Analyst
- Operations Researcher
- Surveyor
- Urban Planner

Highlights:

- A professional and innovative staff committed to providing the best possible mathematics education, including the use of computers and videos in the teaching of mathematics.
- A comprehensive mathematics curriculum addressing the needs of both the transfer student and the non-transfer student.
- A math tutoring center providing free tutoring and alternative modes of instruction and support for students.
- A technology-mediated alternative for students in arithmetic and algebra.
- Comprehensive department site on the college webpage with updated schedule information and details of courses and faculty.

A.A.Degree:

- Mathematics

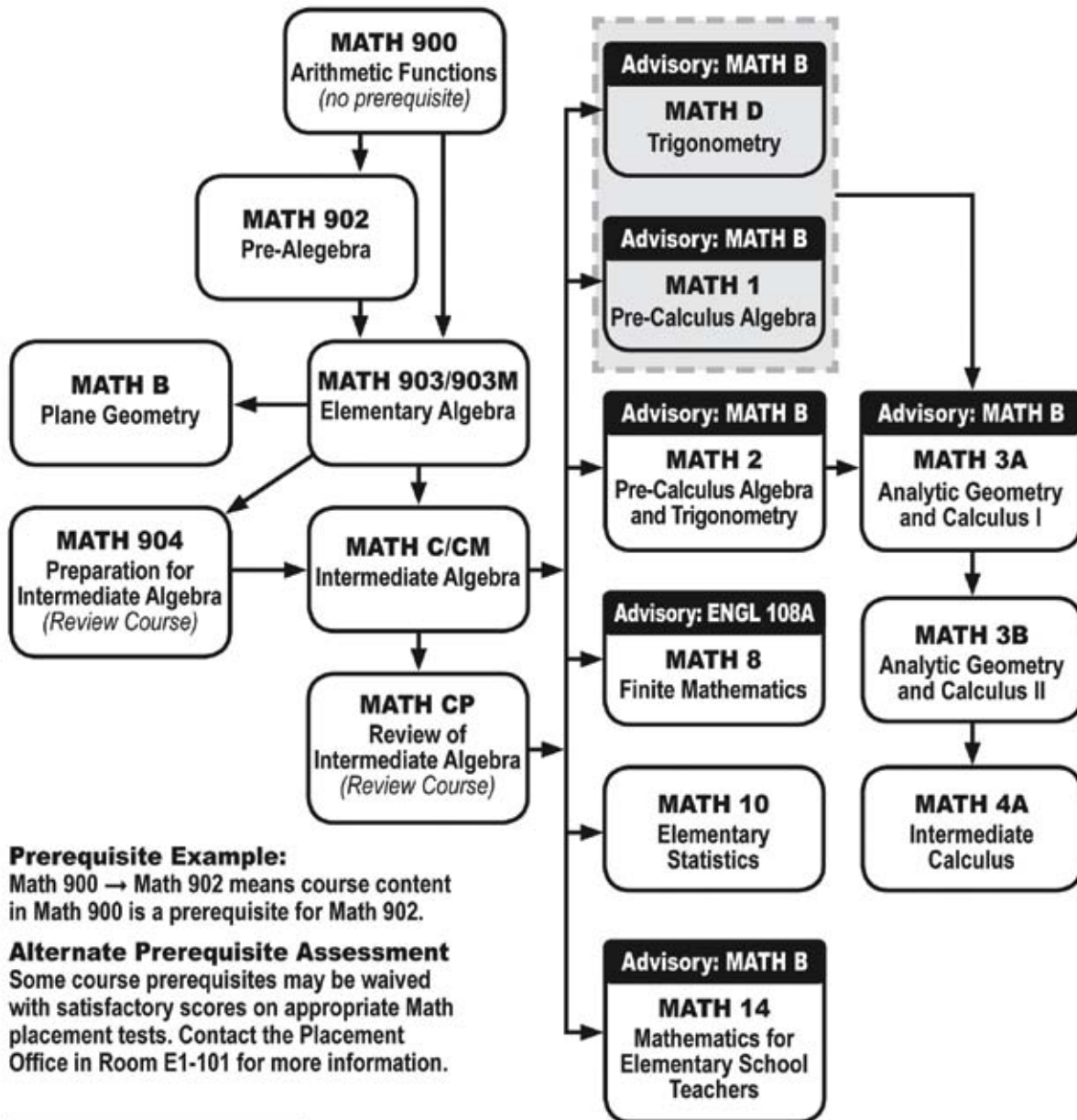
Schedule Matrix:

| COURSE | FALL | SPRING | SUMMER | WEEKEND | ONLINE |
|-------------|------|--------|--------|---------|--------|
| MATH 903 | D,E | D,E | X | D | X |
| MATH 903M | X | | | | |
| MATH 903MX | X | | | | |
| MATH 904 | D | | | | X |
| MATH 000B | | X | | | |
| MATH 000C | D,E | D,E | X | D | X |
| MATH 000CM | | X | | | |
| MATH 000CMX | | X | | | |
| MATH 00CP | | X | | | |
| MATH 000D | E | E | | | |

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Mathematics Map

Courses with Prerequisites



Courses with Advisories



MATHEMATICS

BEFORE ENROLLING IN DEGREE APPLICABLE COURSES, IT IS RECOMMENDED THAT YOU COMPLETE ENGL 001A AND READ 053.

| COURSE | FALL | SPRING | SUMMER | WEEKEND | ONLINE |
|-----------|------|--------|--------|---------|--------|
| MATH 000G | E | D,E | | | |
| MATH 001 | D,E | D,E | X | | |
| MATH 002 | D,E | D,E | X | | |
| MATH 003A | D,E | D,E | X | | |
| MATH 003B | D,E | D,E | X | | |
| MATH 004A | D,E | D,E | X | | |
| MATH 004B | D,E | D,E | X | | |
| MATH 004C | | E | | | |
| MATH 008 | D,E | D,E | X | | X |
| MATH 010 | D,E | D,E | X | D | X |
| MATH 019 | D | D | | | |
| MATH 900 | D,E | D,E | X | | X |
| MATH 901 | | | | | |
| MATH 902 | D,E | D,E | X | | X |
| MATH 950 | | | | | |

D= DAY CLASSES; E= EVENING CLASSES; X = CLASSES OFFERED

Mathematics - A.A. Degree

| Core Curriculum Courses (Required) | Units |
|--|--------------------|
| MATH 003A Analytic Geometry and Calculus..... | 5.0 |
| MATH 003B Analytic Geometry and Calculus..... | 5.0 |
| MATH 004A Intermediate Calculus | 4.0 |
| MATH 010..... Elementary Statistics | 4.0 |
| and | |
| MATH 004B Differential Equations..... | 4.0 |
| or | |
| MATH 004C Linear Algebra..... | 4.0 |
| Plus one of the following: | Units |
| ASTRO 001* Astronomy..... | 3.0 |
| BIOSC 001A* General Biology-Cells..... | 5.0 |
| CHEM 001A* General Chemistry..... | 5.0 |
| PHYS 002A* General Physics..... | 5.0 |
| Plus one of the following: | Units |
| CIS 004A* Computer Programming I (PASCAL) | 3.0 |
| CIS 031* Programming in BASIC..... | 3.0 |
| CIS 031A Fundamentals of Microsoft Visual Basic | 3.0 |
| CIS 037A "C" Programming | 3.0 |
| ENGR 030 Introduction to Computing for Engineers | 4.0 |
| MATH 019..... Discrete Math..... | 4.0 |
| Total A.A. Requirements | 28.0 - 31.0 |

* Or a more advanced course in that department

MATHEMATICS (MATH)

000B • PLANE GEOMETRY 4.0 units

Total Lecture 73.6 hours

Prerequisite: MATH 903 or satisfactory score on an appropriate Mathematics Placement Test

This course introduces geometric and deductive mathematical reasoning in preparation for precalculus. The student will study and demonstrate knowledge and understanding of the basic concepts of plane geometry, emphasizing deductive reasoning and including lines, planes, angles, triangles and spheres, congruence, similarity, parallelism and perpendicularity, length, areas and volumes. This course is designed for the student who has had no previous instruction in geometry or who has had difficulty with geometry. *Pass/No Pass Option.*

000C • INTERMEDIATE ALGEBRA 5.0 units

Total Lecture 89.6 hours

Advisory: MATH 000B

Prerequisite: MATH 903 or satisfactory score on an appropriate Mathematics Placement Test

The student will study and demonstrate knowledge of complex fractions, rational equations, quadratic equations, rational exponents and radicals, complex numbers, functions and relations, exponential and logarithmic functions, conic sections, linear systems and inequalities, sequences and series, and applied problems. *This course may also be offered via distance learning. Pass/No Pass Option.*

000CM • INTERMEDIATE ALGEBRA (MAPS) 5.0 units

Total Lecture 89.6 hours

Advisory: Eligibility for ENGL 108A and READ 053

Prerequisite: MATH 903M or MATH 903 or successful placement into the course based on the Mission College Mathematics Placement Test and an interview with the MAPS counselor.

Corequisite: MATH 000CMX

The students study and demonstrate knowledge of complex fractions, rational equations, quadratic equations, rational exponents and radicals, complex numbers, functions and relations, exponential and logarithmic functions, conic sections, linear systems and inequalities, sequences and series, and applied problems. MATH 000CM is the second course in the MAPS Algebra sequence that will prepare students to meet the math requirement for the associate degree. The course is designed for the student who has had difficulty in mathematics. Extended classroom hours 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. *Pass/No Pass Option.*

000CMX • INTERMEDIATE ALGEBRA (MAPS) 3.0 unit

Total Lecture 54.4 hours

Advisory: Eligibility for ENGL 108A and READ 053

Prerequisite: MATH 903 and/or MATH 903M or satisfactory score on an appropriate Mathematics Placement Test.

Corequisite: MATH 000CM

This is a lecture course that is a co-requisite for MATH 000CM. 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 used by the MAPS program. *Pass/No Pass Only.*

000CP • PREPARATION FOR TRIGONOMETRY, FINITE MATH OR STATISTICS 2.0 units

Total Lecture 36.8 hours

Prerequisite: MATH 000C or satisfactory score on an appropriate Mathematics Placement Test

The student will prepare for the mathematics required to succeed in Trigonometry (MATH 000D), Finite Math (MATH 008), Statistics (MATH 010), or Business Calculus (MATH 012). There will be an accelerated review of all the material from Intermediate Algebra, concentrating on areas of common difficulty. The course is suitable for students who have passed an Intermediate Algebra course. *Pass/No Pass Only.*

000D • TRIGONOMETRY 3.0 units

Total Lecture 54.4 hours

Advisory: MATH 000B

Prerequisite: MATH 000C or satisfactory score on an appropriate Mathematics Placement Test

Acceptable for credit: California State University

The student will study and demonstrate knowledge and understanding of 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.*

000G • MATHEMATICS FOR THE LIBERAL ARTS STUDENT 4.0 units

Total Lecture 73.6 hours

Advisory: ENGL 108A, MATH 000B and MATH 000C

Prerequisite: MATH 903 or MATH 903M

Acceptable for credit: California State University

This course fulfills the graduation requirement for Associate degree and the general education requirement in mathematics for CSU system. It introduces the student to creative mathematical thinking using fascinating examples, topics and problem solving. Range of topics may include applications of set theory, functions and graphs, linear programming, infinity, different geometries and topology, symmetry, calculus, logic, probability and statistics, history of math and math in other cultures. There is an emphasis on general problem solving techniques and how to communicate mathematics. It is intended to provide a sample of current mathematical techniques for the non-specialist. *Pass/No Pass Option.*

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001 • PRE-CALCULUS ALGEBRA

3.0 units

Total Lecture 54.4 hours

Advisory: MATH 000B

Prerequisite: MATH 000C or satisfactory score on an appropriate Mathematics Placement Test

Acceptable for credit: University of California, California State University

NOTE: UC credit may be limited. See a counselor.

This course is part of the preparation for the MATH 003A 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. *Pass/No Pass Option.*

002 • PRE-CALCULUS ALGEBRA AND TRIGONOMETRY

5.0 units

Total Lecture 89.6 hours

Advisory: MATH 000B

Prerequisite: MATH 000C or satisfactory score on an appropriate Mathematics Placement Test

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 pre-calculus algebra (MATH 001) and trigonometry (MATH 000D). This course is designed for the honor student in mathematics who desires to fulfill the requirements of MATH 000D and MATH 001 in one semester. It prepares the student for the Calculus 003A sequence. *Pass/No Pass Option.*

003A • ANALYTIC GEOMETRY AND CALCULUS I

5.0 units

Total Lecture 89.6 hours

Advisory: MATH 000B

Prerequisite: Math 002, or Math 000D and Math 001, or satisfactory score on an appropriate Mathematics Placement Test

Acceptable for credit: University of California, California State University

NOTE: UC credit is limited if MATH 12 also taken.

NOTE: Completion of MATH 3A, 3B and 4A is equivalent to San Jose State University sequence of MATH 29, 30, 31 and 32, although the order of topics presented is different. Students who are planning to complete the sequence are advised to take all courses in the sequence at one college.

This is the first part of the three-semester calculus sequence for math, physics and engineering majors. The student will study and demonstrate knowledge and understanding of functions, limits, continuity, differentiation and integration, maxima, minima, and other applications, and the relationship between calculus and analytic geometry for polynomial and transcendental functions. *Pass/No Pass Option. This course may also be offered via distance learning.*

003B • ANALYTIC GEOMETRY AND CALCULUS II

5.0 units

Total Lecture 89.6 hours

Prerequisite: MATH 003A

Acceptable for credit: University of California, California State University

This is the second part of the three semester calculus sequence for math, physics and engineering majors. The student will study and demonstrate knowledge and understanding of infinite series, vectors in the plane, parametric equations, conic sections, polar coordinates, integration techniques including inverse trigonometric and hyperbolic functions, and applications to area, volume and work. *Pass/No Pass Option. This course may also be offered via distance learning.*

004A • INTERMEDIATE CALCULUS

4.0 units

Total Lecture 73.6 hours

Prerequisite: MATH 003B

Acceptable for credit: University of California, California State University

This is the third part of the three semester calculus sequence. The student will study and demonstrate knowledge and understanding of vectors in two and three dimensional space, vector-valued functions, calculus of functions for several variables, differentials, gradients, Lagrange Multipliers, multiple integrals, line integrals, and an introduction to Green's Theorem, Divergence Theorem, and Stokes Theorem. *Pass/No Pass Option.*

004B • DIFFERENTIAL EQUATIONS

4.0 units

Total Lecture 73.6 hours

Advisory: MATH 003B

Acceptable for credit: University of California, California State University

The student will study and demonstrate knowledge and understanding of ordinary differential equations with emphasis on linear equations. Many standard methods are examined including Laplace Transforms, Fourier Series, power series and numerical solutions. Emphasis will be placed on applications. *Pass/No Pass Option.*

004C • LINEAR ALGEBRA

4.0 units

Total Lecture 73.6 hours

Advisory: MATH 004A

Acceptable for credit: University of California, California State University

The student will study and demonstrate knowledge and understanding of basic linear algebra and its applications. Topics will include systems of linear equations and Gaussian elimination, determinants, matrices, vector spaces, transformations, eigenvalues and eigenvectors. *Pass/No Pass Option.*

008 • FINITE MATHEMATICS

3.0 units

Total Lecture 54.4 hours

Advisory: Eligibility for ENGL 108A and READ 053

Prerequisite: MATH 000C or higher or satisfactory score on an appropriate Mathematics Placement Test. or MATH 000CM

Acceptable for credit: University of California, California State University

The students study and demonstrate knowledge and understanding of linear equations, matrix systems of equations and inequalities, linear programming, set theory and mathematics of finance. Probability and statistics are introduced. Particular emphasis is placed on applications. *This course may also be offered via distance learning. Pass/No Pass Option.*

010 • ELEMENTARY STATISTICS

4.0 units

Total Lecture 73.6 hours

Advisory: MATH 008

Prerequisite: MATH 000C or higher, or satisfactory score on an appropriate Mathematics Placement Test

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.*

014 • MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS (NUMBER SYSTEMS)

3.0 units

Total Lecture 54.4 hours

Advisory: Math 000B

Prerequisite: Math 000C

Acceptable for credit: University of California, California State University

This course is intended to provide a foundation in numeration systems and number theory, particularly with respect to counting numbers, whole numbers, integers, rational numbers, and real numbers. It will emphasize the study and discovery of pattern; develop and extend relationships among number patterns; present mathematical models and real-world applications of them; and provide different algorithms for estimating and finding exact answers when adding, subtracting, multiplying, and dividing. Where appropriate, there will be an emphasis on problem solving, critical thinking, and communication. This course is designed for students who intend to become elementary school teachers. *Pass/No Pass Option.*

019 • DISCRETE MATHEMATICS

4.0 units

Total Lecture 73.6 hours

Advisory: MATH 001

Acceptable for credit: University of California, California State University

The student will study and demonstrate knowledge and understanding of the discrete mathematics appropriate for computer applications. Topics may include graphs, sets, logic, mathematical induction, functions and relations, sequences and series, matrices, combinatorics, Boolean algebra and algebraic structures such as groups, rings and fields. Computer implementations of these mathematical techniques will be incorporated throughout the course. *Pass/No Pass Option.*

MATHEMATICS

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900 • ARITHMETIC FUNCTIONS (NON-ASSOCIATE DEGREE COURSE) **3.0 units**

Total Lecture 54.4 hours

This is a course in basic computational skills and is a prerequisite for all other math courses. Course includes review and practice in fundamental arithmetic skills including whole numbers, fractions and decimals, ratio, proportion and percent, signed numbers, simple equations, problem analysis, and practical applications. This course provides a good background for students who wish to take elementary algebra. *Pass/No Pass Option.*

901 • ARITHMETIC REVIEW (NON-ASSOCIATE DEGREE COURSE) **1.0 unit**

Total Lecture 16.0 hours

The student will review and practice fundamental arithmetic skills, including computations with whole numbers, fractions and decimals, and applications of ratio, proportion and percent to practical problems. This course is a fast-paced review and not a substitute for MATH 900. *Pass/No Pass Option.*

901A • ARITHMETIC REVIEW (SIGN NUMBERS) (NON-ASSOCIATE DEGREE COURSE) **0.5 unit**

Total Lecture 8.0 hours

The student will study signed numbers and practice addition, subtraction, multiplication, and division. *Pass/No Pass Option.*

901B • ARITHMETIC REVIEW (FRACTIONS) (NON-ASSOCIATE DEGREE COURSE) **0.5 unit**

Total Lecture 8.0 hours

The student will study fractions and practice addition, subtraction, multiplication, and division. *Pass/No Pass Option.*

901C • ARITHMETIC REVIEW (DECIMALS) (NON-ASSOCIATE DEGREE COURSE) **0.5 unit**

Total Lecture 8.0 hours

The student will study decimals and practice addition, subtraction, multiplication, and division. *Pass/No Pass Option.*

902 • PRE-ALGEBRA (NON-ASSOCIATE DEGREE COURSE) **3.0 units**

Total Lecture 54.4 hours

Prerequisite: MATH 900 or satisfactory score on an appropriate Mathematics Placement Test

This course is designed for students who have a solid foundation in arithmetic skills but need to develop those skills further before taking Elementary Algebra. This course is intended to serve as a bridge between arithmetic functions and elementary algebra. Topics include a quick review and practice in fundamental arithmetic skills, some basic operations involving polynomials, solving and graphing linear equations, and some practical applications. *This course may also be offered via distance learning. Pass/No Pass Option.*

903 • ELEMENTARY ALGEBRA (NON-ASSOCIATE DEGREE COURSE) **5.0 units**

Total Lecture 89.6 hours

Prerequisite: MATH 900 and/or Math 902 or satisfactory score on an appropriate Mathematics Placement Test

The student will study and demonstrate knowledge and understanding of the basic operations and properties of real numbers, polynomials, rational and exponential expressions. Other topics include simplifying linear, rational and exponential expressions, solving linear equations and their applications, graphing linear equations, and factoring polynomials. Other topics may include additional operations with rational expressions, working with functions, solving systems of linear equations and inequalities, solving quadratic equations by factoring, 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.*

903M • ELEMENTARY ALGEBRA (MAPS) (NON-ASSOCIATE DEGREE COURSE) **5.0 units**

Total Lecture 89.6 hours

Prerequisite: MATH 900 and/or MATH 902 or satisfactory score on an appropriate Mathematics Placement Test and an interview with the MAPS counselor.

Corequisite: MATH 903MX (The Math 903MX is a lecture course that must be taken concurrently with Math 903M.)

The students study and demonstrate knowledge and understanding of the basic operations and properties of real numbers, polynomials, rational and exponential expressions. Other topics include simplifying linear, rational and exponential expressions, solving linear equations and their applications, graphing linear equations, and factoring polynomials. Other topics may include additional operations with rational expressions, working with functions, solving systems of linear equations and inequalities, solving quadratic equations by factoring, and working with scientific notation. MATH 903M is the first course in the MAPS Algebra sequence that will prepare students to meet the math requirement for the associate degree. The course is designed for the student who has had difficulty in mathematics. Extended classroom hours 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. *Pass/No Pass Option.*

903MX • ELEMENTARY ALGEBRA SUPPLEMENT (MAPS) **3.0 units**

Total Lecture 54.4 hours

Prerequisite: MATH 900 and/or MATH 902 or a satisfactory score on an appropriate Mathematics Placement Test

Corequisite: MATH 903M

This is a lecture course that is a co-requisite for MATH 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.*

904 • PREPARATION FOR INTERMEDIATE ALGEBRA (NON-ASSOCIATE DEGREE COURSE) **1.5 units**

Total Lecture 27.2 hours

Prerequisite: MATH 903 or satisfactory score on an appropriate Mathematics Placement Exam

The student will prepare for Intermediate Algebra by an accelerated review of all the material from Elementary Algebra. The course will concentrate on those areas of Algebra which require additional work, and is suitable for students who once passed an Elementary Algebra course. *Pass/No Pass Only.*

950 • SELECTED TOPICS FROM INTERMEDIATE ALGEBRA, TRIGONOMETRY AND STATISTICS (NON-ASSOCIATE DEGREE COURSE) **3.0 units**

Total Lecture 54.4 hours

Advisory: MATH 903

Note: This course does not satisfy math requirements for an associate degree.

Students in this course will study a selection of topics from Intermediate Algebra, Trigonometry and Statistics. Intermediate algebra topics will be chosen to review major concepts and to prepare for applications to the later topics. Trigonometry and statistics topics will be chosen to give an appropriate introduction to each of the areas and their applications in industry. *Pass/No Pass Option.*