

# M - MATHEMATICS

<p>M 065 Prealgebra. <span style="float: right;">3 Credits</span>            Covers pre-algebra concepts involving terminology, fractions, decimals, percent, ratio and proportion, measurement, geometry, and statistics. Credits do not apply toward graduation requirements nor fulfill General Education requirements. However, the credits do count towards enrollment status for financial aid.            Lecture Hours 3            Department: General Education - COT</p>	<p>M 098B Intro &amp; Intermediate Algebra. <span style="float: right;">1 Credit</span>            Term Typically Offered: Fall, Spring, Summer            Prerequisite(s): appropriate placement score.            Covers basic algebra concepts including terminology; operations on rational numbers; solving and graphing linear equations and inequalities in one and two variables; determining equations of lines; polynomial and function operations; operations on exponential and radical expressions; factoring; solving rational, absolute value, radical, and systems of equations; solving and graphing quadratic equations. This is a modularized course based on mastery learning in which students will earn credit for each module (A, B, C, D, E) by examination.            Lecture Hours 1            Department: General Education - COT</p>
<p>M 088 Mathematical Literacy. <span style="float: right;">4 Credits</span>            Term Typically Offered: Fall, Spring            Prerequisite(s): appropriate placement score.            Develops mathematical literacy through peer collaboration, problem solving, critical thinking, writing, and communicating mathematics. Students represent and solve relevant, real-world problems using various forms of numbers, equations, and graphs. Topics include proportional reasoning, algebra, introductory statistical formulas, geometry, and measurement.            Lecture Hours 4            Department: General Education - COT</p>	<p>M 098C Intro &amp; Intermediate Algebra. <span style="float: right;">1 Credit</span>            Term Typically Offered: Fall, Spring, Summer            Prerequisite(s): appropriate placement score.            Covers basic algebra concepts including terminology; operations on rational numbers; solving and graphing linear equations and inequalities in one and two variables; determining equations of lines; polynomial and function operations; operations on exponential and radical expressions; factoring; solving rational, absolute value, radical, and systems of equations; solving and graphing quadratic equations. This is a modularized course based on mastery learning in which students will earn credit for each module (A, B, C, D, E) by examination.            Lecture Hours 1            Department: General Education - COT</p>
<p>M 090 Introductory Algebra. <span style="float: right;">3 Credits</span>            Prerequisite(s): M 065 or equivalent.            Covers basic algebra concepts including terminology, operations on rational numbers, solving and graphing linear equations and inequalities in one and two variables, determining equations of lines, and polynomial and function operations. Credits do not apply toward graduation requirements and do not fulfill General Education requirements. However, the credits do count towards enrollment status for financial aid.            Lecture Hours 3            Department: General Education - COT</p>	<p>M 098D Intro &amp; Intermediate Algebra. <span style="float: right;">1 Credit</span>            Term Typically Offered: Fall, Spring, Summer            Prerequisite(s): appropriate placement score.            Covers basic algebra concepts including terminology; operations on rational numbers; solving and graphing linear equations and inequalities in one and two variables; determining equations of lines; polynomial and function operations; operations on exponential and radical expressions; factoring; solving rational, absolute value, radical, and systems of equations; solving and graphing quadratic equations. This is a modularized course based on mastery learning in which students will earn credit for each module (A, B, C, D, E) by examination.            Lecture Hours 1            Department: General Education - COT</p>
<p>M 095 Intermediate Algebra. <span style="float: right;">4 Credits</span>            Prerequisite(s): M 090 or equivalent.            Reviews basic algebra concepts including terminology, operations on rational numbers, solving and graphing linear equations and inequalities in one and two variables, determining equations of lines, and polynomial operations. Covers function operations; operations on exponential and radical expressions; factoring; solving rational, absolute value, radical, and systems of equations; and solving and graphing quadratic equations. Credits do not apply toward graduation requirements and do not fulfill General Education requirements. However, the credits do count towards enrollment status for financial aid.            Lecture Hours 4            Department: General Education - COT</p>	<p>M 098E Intro &amp; Intermediate Algebra. <span style="float: right;">1 Credit</span>            Term Typically Offered: Fall, Spring, Summer            Prerequisite(s): appropriate placement score.            Covers basic algebra concepts including terminology; operations on rational numbers; solving and graphing linear equations and inequalities in one and two variables; determining equations of lines; polynomial and function operations; operations on exponential and radical expressions; factoring; solving rational, absolute value, radical, and systems of equations; solving and graphing quadratic equations. This is a modularized course based on mastery learning in which students will earn credit for each module (A, B, C, D, E) by examination.            Lecture Hours 1            Department: General Education - COT</p>
<p>M 098A Intro &amp; Intermediate Algebra. <span style="float: right;">1 Credit</span>            Term Typically Offered: Fall, Spring, Summer            Prerequisite(s): appropriate placement score.            Covers basic algebra concepts including terminology; operations on rational numbers; solving and graphing linear equations and inequalities in one and two variables; determining equations of lines; polynomial and function operations; operations on exponential and radical expressions; factoring; solving rational, absolute value, radical, and systems of equations; solving and graphing quadratic equations. This is a modularized course based on mastery learning in which students will earn credit for each module (A, B, C, D, E) by examination.            Lecture Hours 1            Department: General Education - COT</p>	<p>M 108 Business Mathematics. <span style="float: right;">3 Credits</span>            Term Typically Offered: Fall, Spring            Prerequisite(s): Passing M 065 or appropriate placement test scores.            3cr. Examines the mathematics of business ownership and exposes the mathematical needs of business decisions. Techniques include marketing, payroll, cash flow, simple and compound interest, credit, promissory notes, insurance financial statements, ratio analysis, depreciation, annuities, and inventory valuation.            Lecture Hours 3            Department: General Education - COT</p>

M 111 Technical Mathematics. 3 Credits

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): M 065 or appropriate placement scores.

Applies math to problems drawn from diverse occupational fields. In addition to a review of operations on rational numbers, the topics of measurement, percent, proportion and variation, applications of algebra to the extent of solving quadratic equations, and applications of plane and solid figure geometry are developed for use in a trade or industrial setting. Course may serve as a prerequisite to M 114, but does not satisfy the prerequisite of any other math courses. Credits apply to graduation but do not fulfill General Education requirements.

Lecture Hours 3

Department: General Education - COT

M 114 Extended Technical Mathematics. 3 Credits

Term Typically Offered: Fall, Spring, Summer

Prerequisite(s): M 111 or appropriate placement score.

Applies math to problems drawn from diverse occupational fields. Provides college level study of measurement, algebra, geometry, and trigonometry as needed to solve mathematical applications in a trade or technical work environment.

Lecture Hours 3

Department: General Education - COT

M 120 Math Health Care Applications. 3 Credits

Term Typically Offered: Fall, Spring

Prerequisite(s): appropriate placement score.

Provides students with a solid mathematical foundation necessary to succeed in a health care profession. This course will review algebra, systems of measurement, medication and syringe calculations, ratio and proportions, calculations for intravenous therapy, basic statistics, ionic solutions, and pH calculations. Offered ONLY Online.

Lecture Hours 3

Department: General Education - COT

M 140 College Math for Healthcare. 3 Credits

Term Typically Offered: Fall, Spring

Prerequisite(s): M 088 or appropriate placement score.

Provides students with a solid mathematical foundation necessary to succeed in a health care profession. This course will review algebra, systems of measurement, ratio and proportions, basic probability and statistics concepts, and ionic solutions and pH calculations. This course will apply mathematical reasoning and problem solving as it applies to the healthcare field and is a suitable prerequisite for STAT 216.

Lecture Hours 3

Department: General Education - COT