

Note: Course Dates indicate Beginning and Ending Dates

M=Monday, T=Tuesday, W=Wednesday, R=Thursday, F=Friday, S=

CRN	Instructor	Days	Time	Room	D	CRN	Instructor	Days	Time	Room	D						
<b>Math</b>						2020	Kim, B.	TR	11:30 AM-12:55 PM	MA 126	08/28-12/18						
<b>MATH 017 Basic Math and Study Skills</b>																	
<b>3 Units</b>																	
This course focuses on building whole number arithmetic skills to prepare students for MATH 020. This course covers arithmetic operations on whole numbers, a brief introduction to fractions and decimals, and incorporates study skills for success in mathematics courses. 54 lecture hours.																	
20102	Davis, M.	MW	01:05 PM-02:30 PM	MA 223	08/28-12/18	20202	Kim, B.	R	01:05 PM-02:10 PM	LS 120	08/28-12/18						
20076	Alvarado, N.	MW	04:00 PM-05:25 PM	MA 126	08/28-12/18	20780	Lei, L.	TR	01:05 PM-02:30 PM	ES 610	08/28-12/18						
20107	Selezinka, R.	TR	09:55 AM-11:20 AM	ES 610	08/28-12/18		Lei, L.	R	02:40 PM-03:45 PM	LS 120	08/28-12/18						
20099	Reagan, D.	TR	11:30 AM-12:55 PM	PS 106	08/28-12/18	20208	Scott, C.	TR	05:25 PM-06:50 PM	ES 610	08/28-12/18						
20073	Swatzel, J.	MTWR	08:20 AM-09:45 AM	LB 105	08/28-10/23		Scott, C.	T	07:00 PM-08:05 PM	LS 120	08/28-12/18						
<b>FIRST EIGHT WEEK FAST TRACK/LEARNING COMMUNITIES CLASS:</b> Requires enrollment in FAST TRACK Math 020 CRN 20772 and Counseling 159 CRN 20897.						20220	Riderer, L.	TR	07:00 PM-08:25 PM	ES 610	08/28-12/18						
<b>MATH 020 Arithmetic Fundamentals</b>							Riderer, L.	T	05:45 PM-06:50 PM	LS 120	08/28-12/18						
<b>3 Units</b>						21056	Medrano, E.	MTWR	08:20 AM-09:45 AM	LS 120	10/25-12/18						
Prerequisite: Placement is based on multiple assessment measures or completion of MATH 017. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. The four basic operations of arithmetic on whole numbers, fractions, and decimals, with applications. Ratios, proportions, and percents with applications. 54 lecture hours.																	
20979	Low, J.	MW	08:20 AM-09:45 AM	MA 230	08/28-12/18		Medrano, E.	WR	09:55 AM-11:00 AM	LS 120	10/25-12/18						
20120	Low, J.	MW	11:30 AM-12:55 PM	MA 230	08/28-12/18	<b>Fast Track Class: Requires enrollment in Math 020 CRN 21016</b> <b>Second Eight Weeks</b>											
20161	Kassab, M.	MW	05:25 PM-06:50 PM	MA 222	08/28-12/18	20778	Low, J.	MTWR	09:55 AM-11:20 AM	MA 230	10/25-12/18						
20113	Chun, M.	TR	08:20 AM-09:45 AM	MA 230	08/28-12/18		Low, J.	TW	11:30 AM-12:35 PM	LS 120	10/25-12/18						
20138	Lei, L.	TR	11:30 AM-12:55 PM	MA 230	08/28-12/18	<b>Fast Track Class: Requires enrollment in Math 020 CRN 20837.</b> <b>Second Eight Weeks</b>											
20106	Medrano, E.	MTWR	08:20 AM-09:45 AM	LS 120	08/28-10/23	<b>MATH 130 Elementary Algebra</b>											
<b>Fast Track Class: Requires enrollment in Math 029 CRN 21056.</b> <b>First Eight Weeks.</b>						<b>4 Units</b>											
20772	Swatzel, J.	MTWR	08:20 AM-09:45 AM	LB 105	10/25-12/18	Prerequisite: Placement is based on multiple assessment measures or completion of MATH 029 with min. grade of C. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. Fundamental operations with polynomials and rational expressions, products and factoring, linear and quadratic equations in one variable, inequalities, exponents, radicals, graphing linear equations, systems of equations, applications and introduction to functions. 90 lecture hours.											
<b>SECOND EIGHT WEEK FAST TRACK/LEARNING COMMUNITIES CLASS:</b> Requires enrollment in FAST TRACK Math 017 CRN 20073 and Counseling 159 CRN 20897.						20418	Cummins, S.	MTWR	08:20 AM-09:30 AM	MA 206	08/28-12/18						
20837	Low, J.	MTWR	09:55 AM-11:20 AM	MA 230	08/28-10/23	20270	Trad, M.	MTWR	08:25 AM-09:35 AM	MA 125	08/28-12/18						
<b>Fast Track Class: Requires enrollment in Math 029 CRN 20778.</b>						20805	Tussy, A.	MTWR	11:30 AM-12:40 PM	MA 222	08/28-12/18						
<b>MATH 029 Pre-Algebra</b>						20981	Trad, M.	MTWR	11:30 AM-12:40 PM	LB 105	08/28-12/18						
<b>3 Units</b>						20390	Swan, A.	MTWR	11:35 AM-12:45 PM	ES 616	08/28-12/18						
Prerequisite: Placement is based on multiple assessment measures or successful completion of MATH 020. Strongly recommended: READ 099 if required by reading placement exam or if required by reading level. This course is designed to prepare a student for Elementary Algebra. Topics include a review of arithmetic, a study of signed numbers, an introduction to fundamental algebraic concepts, solving equations, and solving applied problems. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION. 72 lecture hours.																	
20777	Casey, D.	MW	08:20 AM-09:45 AM	MA 225	08/28-12/18	20254	Morrison, J.	MW	07:15 AM-09:45 AM	MA 223	08/28-12/18						
	Casey, D.	M	09:55 AM-11:00 AM	LS 120	08/28-12/18	20264	Luu, K.	MW	07:15 AM-09:45 AM	PS 106	08/28-12/18						
20184	Chun, M.	MW	09:55 AM-11:20 AM	ES 610	08/28-12/18	20305	Gong, C.	MW	09:55 AM-12:25 PM	MA 126	08/28-12/18						
	Chun, M.	M	11:30 AM-12:35 PM	LS 120	08/28-12/18	20287	Morrison, J.	MW	10:10 AM-12:40 PM	MA 223	08/28-12/18						
20183	Tseng, K.	MW	11:30 AM-12:55 PM	PS 106	08/28-12/18	20394	Gong, C.	MW	01:05 PM-03:35 PM	MA 124	08/28-12/18						
	Tseng, K.	W	01:05 PM-02:10 PM	LS 120	08/28-12/18	20307	Riderer, L.	MW	01:05 PM-03:35 PM	MA 109	08/28-12/18						
20191	Paek, H.	MW	11:30 AM-12:55 PM	ES 610	08/28-12/18	20232	Nguyenhuu, R.	MW	01:05 PM-03:35 PM	ES 616	08/28-12/18						
	Paek, H.	M	01:05 PM-02:10 PM	LS 120	08/28-12/18	20256	Paek, H.	MW	01:05 PM-03:35 PM	MA 125	08/28-12/18						
20197	Tseng, K.	MW	01:05 PM-02:30 PM	ES 610	08/28-12/18	20303	Morrison, J.	MW	02:45 PM-05:15 PM	MA 223	08/28-12/18						
	Tseng, K.	M	02:40 PM-03:45 PM	LS 120	08/28-12/18	20403	Swan, A.	MW	03:50 PM-06:20 PM	MA 125	08/28-12/18						
20204	Scott, C.	MW	05:25 PM-06:50 PM	ES 610	08/28-12/18	20970	Kassab, M.	MW	07:00 PM-09:30 PM	MA 222	08/28-12/18						
	Scott, C.	M	07:00 PM-08:05 PM	LS 120	08/28-12/18	20369	Luu, K.	TR	07:15 AM-09:45 AM	PS 106	08/28-12/18						
20213	Nalbandyan, Z.	MW	07:00 PM-08:25 PM	ES 610	08/28-12/18	20282	Low, J.	TR	01:05 PM-03:35 PM	MA 109	08/28-12/18						
	Nalbandyan, Z.	M	05:45 PM-06:50 PM	LS 120	08/28-12/18	20406	Casey, D.	TR	01:05 PM-03:35 PM	ES 616	08/28-12/18						
20180	Lenh, A.	TR	08:20 AM-09:45 AM	ES 610	08/28-12/18	20297	Nguyen, C.	TR	01:05 PM-03:35 PM	MA 222	08/28-12/18						
	Lenh, A.	T	09:55 AM-11:00 AM	LS 120	08/28-12/18	20397	Swatzel, J.	TR	03:50 PM-06:20 PM	MA 222	08/28-12/18						
20182	Paek, H.	TR	11:30 AM-12:55 PM	ES 610	08/28-12/18	20977	Ng, S.	TR	05:25 PM-07:55 PM	MA 109	08/28-12/18						
	Paek, H.	T	01:05 PM-02:10 PM	LS 120	08/28-12/18	20781	Nguyen, C.	TR	04:20 PM-06:50 PM	MA 230	08/28-12/18						
21444	Davis, M.	TR	02:40 PM-04:15 PM	ES 610	09/14-12/18	20411	Scott, C.	TR	07:00 PM-09:30 PM	MA 222	08/28-12/18						
	Davis, M.	T	04:25 PM-05:30 PM	LS 120	09/14-12/18	21035	Medrano, E.	HRS-ARRG			08/28-12/18						

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**MATH 148 Intermediate Algebra I**

**2.5 Unit:**

Prerequisite: MATH 130 or placement is based on multiple assessment measures.

Presents the first half of a two-semester alternative to intermediate algebra. (MATH 150). Real number properties, first degree equations and inequalities, absolute value equations and inequalities, applications, polynomials, the binomial theorem, factoring, rational expressions, exponents, radicals, and complex numbers. 54 lecture hours.

NOTE: BOTH MATH 148 AND MATH 149 MUST BE COMPLETED TO SATISFY A MATH 150 PREREQUISITE. MAY NOT BE TAKEN CONCURRENTLY WITH MATH 149 OR MATH 150.

20442	Nguyenhuu, R.	MW	09:55 AM-11:20 AM	MA 108	08/28-12/18
20436	Gong, C.	TR	09:55 AM-11:20 AM	MA 126	08/28-12/18

**MATH 149 Intermediate Algebra II**

**2.5 Unit:**

Prerequisite: MATH 148 or placement is based on multiple assessment measures.

Presents the second half of a two-semester course in intermediate algebra. This course enables students to complete Intermediate Algebra (MATH 150) at a slower pace. Quadratic equations, applications, formulas, linear equations and inequalities, variation, functions, linear systems, conics, inverse functions, exponential, and logarithmic functions. 54 lecture hours.

NOTE: BOTH MATH 148 AND MATH 149 MUST BE COMPLETED TO SATISFY ANY PREREQUISITE REQUIRING INTERMEDIATE ALGEBRA. THIS COURSE MAY NOT BE TAKEN CONCURRENTLY WITH MATH 150. STUDENTS MAY NOT EARN MORE THAN A TOTAL OF FIVE UNITS IN ANY COMBINATION OF MATH 148, 149 AND 150.

20470	Nguyenhuu, R.	TR	09:55 AM-11:20 AM	MA 108	08/28-12/18
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**MATH 150 Intermediate Algebra**

**5 Units**

Prerequisite: MATH 130 or placement is based on multiple assessment measures.

Real number properties, first degree equations and inequalities, absolute value equations and inequalities, applications, polynomials, the binomial theorem, factoring, rational expressions, exponents, radicals, complex numbers, quadratic equations, applications, formulas, linear equations and inequalities, variation, functions, linear systems, conics, inverse functions, exponential, and logarithmic functions. 90 lecture hours. NOTE: THIS COURSE MAY NOT BE TAKEN CONCURRENTLY WITH EITHER MATH 148 or 149. STUDENTS MAY NOT EARN MORE THAN A TOTAL OF FIVE UNITS IN ANY COMBINATION OF MATH 148, 149 AND 150.

20503	Swan, A.	MTWR	07:00 AM-08:10 AM	MA 109	08/28-12/18
21352	Cheng, T.	MW	07:00 PM-09:30 PM	MA 109	08/28-12/18
20494	Tussy, A.	MTWR	07:00 AM-08:10 AM	MA 222	08/28-12/18
20585	White, S.	MTWR	08:20 AM-09:30 AM	MA 109	08/28-12/18
20515	Tussy, A.	MTWR	08:30 AM-09:40 AM	MA 222	08/28-12/18
20558	White, S.	MTWR	09:55 AM-11:05 AM	MA 109	08/28-12/18
20553	Cummins, S.	MTWR	10:00 AM-11:10 AM	MA 206	08/28-12/18
20556	Cummins, S.	MTWR	11:30 AM-12:40 PM	MA 206	08/28-12/18
20830	Zhuang, Y.	MTWR	11:35 AM-12:45 PM	MA 108	08/28-12/18
20578	White, S.	MTWR	11:45 AM-12:55 PM	MA 109	08/28-12/18
20510	Kramer, H.	MW	07:15 AM-09:45 AM	MA 108	08/28-12/18
20602	Everest, R.	MW	01:05 PM-03:35 PM	MA 222	08/28-12/18
20968	Zhuang, Y.	MW	01:05 PM-03:35 PM	MA 108	08/28-12/18
20583	Gonzalez, R.	MW	02:45 PM-05:15 PM	MA 207	08/28-12/18
20521	Nalbandyan, Z.	MW	03:50 PM-06:20 PM	MA 230	08/28-12/18
20590	Gonzalez, R.	MW	05:25 PM-07:55 PM	MA 108	08/28-12/18
21306	Odrich, S.	MW	07:00 PM-09:30 PM	MA 126	08/28-12/18
20505	Zhuang, Y.	TR	07:15 AM-09:45 AM	MA 108	08/28-12/18
20568	Everest, R.	TR	08:50 AM-11:20 AM	MA 207	08/28-12/18
20964	Everest, R.	TR	01:05 PM-03:35 PM	MA 230	08/28-12/18
20571	Nguyenhuu, R.	TR	01:05 PM-03:35 PM	MA 124	08/28-12/18
21324	Nguyen, T.	TR	02:40 PM-05:10 PM	LB 105	08/28-12/18
20782	Nguyenhuu, R.	TR	03:50 PM-06:20 PM	ES 616	08/28-12/18
20517	Nguyen, T.	TR	05:25 PM-07:55 PM	MA 108	08/28-12/18
21307	Odrich, S.	TR	07:00 PM-09:30 PM	MA 126	08/28-12/18
20595	Swatzel, J.	HRS-ARRG			08/28-12/18
DISTANCE EDUCATION CLASS After registering go to <a href="http://www.citruscollege.edu/edu">www.citruscollege.edu/edu</a>					
20980	Trad, M.	HRS-ARRG			08/28-12/18
DISTANCE EDUCATION CLASS After registering go to <a href="http://www.citruscollege.edu/edu">www.citruscollege.edu/edu</a>					

**MATH 151 Plane Trigonometry**

**4 Units**

Prerequisite: MATH 131 and MATH 149 or MATH 150 or High School Geometry or placement is based on multiple assessment measures.

Functions, the trigonometric functions: their graphs and identities, laws of sines and cosines, solutions of triangles, trigonometric equations, inverse trigonometric functions, polar coordinates, DeMoivre's Theorem. 72 lecture hours. CSU

20610	Gonzalez, R.	MTWR	10:00 AM-11:10 AM	MA 222	08/28-12/04
20606	Everest, R.	MW	08:50 AM-10:55 AM	MA 207	08/28-12/18
20613	Casey, D.	MW	01:05 PM-03:10 PM	PS 106	08/28-12/18
20615	Riderer, L.	TR	04:45 PM-06:50 PM	MA 125	08/28-12/18

**MATH 162 Introductory Mathematical Analysis**

**4 Units**

Prerequisite: MATH 149 or 150 or placement is based on multiple assessment measures.

Concepts of function and limits: applied calculus emphasizing techniques of integration and differentiation with applications in social and life sciences, business administration, economics, and engineering technology. 72 lecture hours. CSU UC

20618	Paek, H.	TR	01:05 PM-03:10 PM	MA 125	08/28-12/18
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**MATH 165 Introductory Statistics**

**4 Units**

Prerequisite: MATH 149 or MATH 150 or placement is based on multiple assessment measures.

Introductory course to statistics and probability, descriptive analysis, and presentation of data, hypothesis testing, statistical inference, normal curve, chi square, and applications in diverse disciplines. 72 lecture hours. CSU UC

20892	Gutierrez, J.	MW	07:40 AM-09:45 AM	MA 124	08/28-12/18
21446	Tippins, R.	HRS-ARRG			09/27-12/18
DISTANCE EDUCATION CLASS. After registering go to <a href="http://www.citruscollege.edu/de">www.citruscollege.edu/de</a>					
20623	Swan, A.	MW	09:15 AM-11:20 AM	ES 616	08/28-12/18
20966	Anderson, B.	MW	09:55 AM-12:00 PM	MA 125	08/28-12/18
20644	Anderson, B.	MW	02:40 PM-04:45 PM	MA 206	08/28-12/18
20639	Gutierrez, J.	TR	07:40 AM-09:45 AM	MA 124	08/28-12/18
20632	Swan, A.	TR	09:15 AM-11:20 AM	ES 616	08/28-12/18
20636	Anderson, B.	TR	09:55 AM-12:00 PM	MA 125	08/28-12/18
20861	Zhuang, Y.	TR	01:05 PM-03:10 PM	MA 108	08/28-12/18
21060	Zhuang, Y.	TR	05:25 PM-07:30 PM	MA 206	08/28-12/18
20791	Tippins, R.	HRS-ARRG			08/28-12/18
DISTANCE EDUCATION CLASS After registering go to <a href="http://www.citruscollege.edu/de">www.citruscollege.edu/de</a>					

**MATH 168 Mathematics for Elementary**

**3 Units**

**Teachers I**

Prerequisite: MATH 150 or placement is based on multiple assessment measures.

Course is designed for prospective elementary teachers. The course covers sets, logic, number systems, number theory and algebra functions. Techniques in instructional delivery explored. 54 lecture hours, 20 lab hours. CSU UC

20647	Gong, C.	T	01:05 PM-03:10 PM	MA 206	08/28-12/18
	Gong, C.	R	01:05 PM-01:55 PM	MA 206	08/28-12/18
	Gong, C.	R	02:05 PM-03:10 PM	MA 206	08/28-12/18

**MATH 170 College Algebra**

**3 Units**

Prerequisite: MATH 149 or MATH 150 or placement is based on multiple assessment measures.

Polynomial, rational, exponential, and logarithmic functions; matrices and determinants; theory of equations; analytic geometry, and mathematical induction. 54 lecture hours. CSU UC

20654	Chun, M.	MW	08:20 AM-09:45 AM	MA 126	08/28-12/18
20658	Swan, A.	MW	01:05 PM-02:30 PM	MA 207	08/28-12/18
21325	Selezinka, R.	TR	08:20 AM-09:45 AM	MA 126	08/28-12/18
20652	Leung, S.	TR	03:50 PM-05:15 PM	MA 126	08/28-12/18
20656	Leung, S.	TR	05:25 PM-06:50 PM	MA 124	08/28-12/18
20792	Tippins, R.	HRS-ARRG			08/28-12/18
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**MATH 175 Pre-Calculus 4 Units**

Prerequisite: MATH 151 or placement is based on multiple assessment measures.

Preparation for calculus; polynomial, rational, exponential, logarithmic, and trigonometric functions; analytic geometry; mathematical induction. 72 lecture hours. CSU UC

20662	Tippins, R.	MW	01:05 PM-03:10 PM	MA 230	08/28-12/18
20663	Scott, C.	MW	07:00 PM-09:05 PM	MA 207	08/28-12/18
20660	Tippins, R.	TR	09:15 AM-11:20 AM	MA 223	08/28-12/18

**MATH 190 Calculus with Analytic Geometry I 4 Units**

Prerequisite: MATH 175 or placement is based on multiple assessment measures.

Introduction to differential and integral calculus with applications; functions; limits; and continuity; techniques of differentiation; exponential; logarithmic; and inverse trigonometric functions. 72 lecture hours. CSU UC

20665	Medrano, E.	MTWR	09:55 AM-11:05 AM	PS 106	08/28-12/04
20672	Swatzel, J.	MTWR	11:30 AM-12:40 PM	MA 124	08/28-12/04
21312	Anderson, B.	TR	01:05 PM-03:10 PM	PS 106	08/28-12/18

**MATH 191 Calculus with Analytic Geometry II 4 Units**

Prerequisite: MATH 190.

Continuation of integral calculus with applications; techniques of integration; sequences and series; analytic geometry; plane curves; parametric equations; and polar coordinates. 72 lecture hours. CSU UC

20675	Gonzalez, R.	MTWR	11:35 AM-12:45 PM	MA 207	08/28-12/04
20673	Riderer, L.	MW	05:25 PM-07:30 PM	MA 124	08/28-12/18

**MATH 210 Calculus with Analytic Geometry III 4 Units**

Prerequisite: MATH 191.

Vectors, calculus of functions of more than one variable, partial derivatives, multiple integration, vector calculus, Green's Theorem, Stokes' Theorem, and divergence theorem. 72 lecture hours. CSU UC

20677	Riderer, L.	TR	01:05 PM-03:10 PM	MA 207	08/28-12/18
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**MATH 212 Introduction to Linear Algebra 4 Units**

Prerequisite: MATH 191.

An introduction to linear algebra that complements coursework in calculus. Topics include systems of linear equations, matrix operations, determinants, vectors and vector spaces, eigenvalues and eigenvectors and linear transformations. 72 lecture hours. CSU UC

20893	Gutierrez, J.	TR	01:05 PM-03:10 PM	MA 223	08/28-12/18
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