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

Math

MATH 020   Arithmetic Fundamentals   1 Units

Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English level.
The four basic operations of arithmetic on whole numbers, fractions, and decimals, with applications. Ratios, proportions, and percents with applications. This course will be offered on a Pass/No Pass basis only. 54 lab hours.

CRN	Instructor	Days	Time	Room	D
31517	Odrich, S.	MW	01:05 PM-02:30 PM	MA 127	02/19-06/15
31519	Odrich, S.	MW	11:30 AM-12:55 PM	MA 127	02/19-06/15
31521	Odrich, S.	MW	03:50 PM-05:15 PM	MA 127	02/19-06/15
31523	Odrich, S.	MW	07:00 PM-08:25 PM	MA 127	02/19-06/15
31518	Odrich, S.	TR	01:05 PM-02:30 PM	MA 127	02/19-06/15
31520	Odrich, S.	TR	11:30 AM-12:55 PM	MA 127	02/19-06/15
31522	Odrich, S.	TR	07:00 PM-08:25 PM	MA 127	02/19-06/15
31524	Odrich, S.	TR	03:50 PM-05:15 PM	MA 127	02/19-06/15

MATH 029   Pre-Algebra   4 Units

Prerequisite: Placement is based on multiple assessment measures or successful completion of MATH 020.
Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English 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. 72 lecture hours. NOTE: THE UNITS EARNED FOR THIS COURSE MAY NOT BE APPLIED TOWARD THE 60 UNITS FOR GRADUATION.

CRN	Instructor	Days	Time	Room	D
30021	Low, J.	TR	01:05 PM-03:10 PM	MA 223	02/19-06/15
30029	Lei, L.	MW	01:05 PM-03:10 PM	MA 223	02/19-06/15
31528	Low, J.	MW	10:40 AM-12:45 PM	MA 230	02/19-06/15
30024	Lei, L.	MW	10:35 AM-12:40 PM	PS 106	02/19-06/15
30103	Scott, C.	MW	03:50 PM-05:55 PM	MA 223	02/19-06/15
31302	Low, J.	TR	08:20 AM-10:25 AM	MA 230	02/19-06/15
30046	Dominguez, V.	MTWR	09:55 AM-11:05 AM	MA 223	02/19-05/30
30109	Paek, H.	MW	01:05 PM-03:10 PM	MA 125	02/19-06/15
30048	Dominguez, V.	MTWR	11:30 AM-12:40 PM	MA 223	02/19-05/30

LEARNING COMMUNITIES CLASS Requires enrollment in SOC 201 CRN 30854

| 30032 | Tseng, K. | TR | 05:25 PM-07:50 PM | MA 223 | 03/04-06/15 |

Late Start Class

| 31947 | Stevenson, M. | MTWR | 01:05 PM-02:15 PM | PS 106 | 02/19-05/30 |
| 31948 | Stevenson, M. | MTWR | 02:30 PM-03:40 PM | PS 106 | 02/19-05/30 |

MATH 030   Elementary Algebra   4 Units

Prerequisite: Placement is based on multiple assessment measures or completion of MATH 029 with min. grade of C.
Strongly recommended: ENGL 099 or READ 099 if required by English placement or if required by English 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.

CRN	Instructor	Days	Time	Room	D
31771	Gutierrez, J.	MTWR	07:00 AM-08:10 AM	LB 105	02/19-06/15
31772	Gutierrez, J.	MTWR	08:20 AM-09:30 AM	LB 105	02/19-06/15
31773	Trad, M.	MTWR	08:30 AM-09:40 AM	MA 109	02/19-06/15
31770	Gong, C.	MTWR	09:40 AM-10:50 AM	MA 126	02/19-06/15
31785	Trad, M.	MTWR	10:00 AM-11:10 AM	MA 109	02/19-06/15
31774	Gutierrez, J.	MTWR	10:00 AM-11:10 AM	LB 105	02/19-06/15
31777	Gong, C.	MTWR	11:10 AM-12:20 PM	MA 126	02/19-06/15
31775	Tussy, A.	MTWR	11:30 AM-12:40 PM	MA 222	02/19-06/15
31776	Trad, M.	MTWR	11:30 AM-12:40 PM	MA 109	02/19-06/15
31962	Berberyan, T.	MTWR	11:30 AM-12:40 PM	MA 125	02/19-06/15
31783	Low, J.	MW	08:00 AM-10:30 AM	MA 230	02/19-06/15
31779	Scott, C.	MW	01:05 PM-03:35 PM	MA 124	02/19-06/15
31782	Nguyen, T.	MW	05:55 PM-08:25 PM	MA 206	02/19-06/15
31786	Swatzel, J.	TR	08:20 AM-10:50 AM	PC 303	02/19-06/15
31778	Paek, H.	TR	01:05 PM-03:35 PM	MA 125	02/19-06/15
31781	Medrano, E.	TR	01:05 PM-03:35 PM	MA 109	02/19-06/15
31780	Nguyen, C.	TR	01:05 PM-03:35 PM	PC 303	02/19-06/15
31784	Cheng, T.	TR	06:00 PM-08:30 PM	MA 206	02/19-06/15
31787	Trad, M.		HRS-ARRG		02/19-06/15

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

| 31788 | Medrano, E. | | HRS-ARRG | | 02/19-06/15 |

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

| 31867 | Kassab, M. | TR | 01:05 PM-03:35 PM | LB 105 | 02/19-06/15 |

MATH 131   Plane Geometry   4 Units

Prerequisite: MATH 030 or placement is based on multiple assessment measures.
A first course in geometry. Elementary logic, properties of geometric figures, parallel and perpendicular lines, ratio and proportion, congruence, area, and volume. 72 lecture hours.

CRN	Instructor	Days	Time	Room	D
31209	Nguyen, C.	TR	04:00 PM-06:05 PM	PC 303	02/19-06/15

MATH 150   Intermediate Algebra   5 Units

Prerequisite: MATH 030 or placement is based on multiple assessment measures.
Real number properties, first degree equations and inequalities, absolute value equations and inequalities, formulas, applications, exponents, polynomials, the binomial theorem, factoring, linear systems, functions, rational expressions, radicals, complex numbers, quadratic equations, conics, inverse functions, and 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.

CRN	Instructor	Days	Time	Room	D
30309	Tussy, A.	MTWR	07:00 AM-08:10 AM	MA 222	02/19-06/15
30308	Swan, A.	MTWR	07:00 AM-08:10 AM	MA 126	02/19-06/15
30317	White, S.	MTWR	08:20 AM-09:30 AM	MA 126	02/19-06/15
30311	Tussy, A.	MTWR	08:30 AM-09:40 AM	MA 222	02/19-06/15
30306	White, S.	MTWR	09:55 AM-11:05 AM	MA 222	02/19-06/15
30307	White, S.	MTWR	11:35 AM-12:45 PM	MA 207	02/19-06/15
30314	Zhuang, Y.	MTWR	11:35 AM-12:45 PM	MA 206	02/19-06/15
31791	Phan-Yamada, T.	TR	07:15 AM-09:45 AM	MA 223	02/19-06/15

LEARNING COMMUNITIES CLASS Requires enrollment in ENGL 101 CRN 31179

30929	Everest, R.	MW	08:50 AM-11:20 AM	MA 207	02/19-06/15
31386	Nguyenhuu, R.	MW	01:05 PM-03:35 PM	MA 108	02/19-06/15
30319	Everest, R.	MW	01:05 PM-03:35 PM	MA 206	02/19-06/15
30320	Zhuang, Y.	MTWR	08:10 AM-09:20 AM	MA 108	02/19-06/15
30318	Gong, C.	MW	01:20 PM-03:50 PM	MA 126	02/19-06/15
30312	Swatzel, J.	MW	11:00 AM-01:30 PM	PC 303	02/19-06/15
31090	Nguyenhuu, R.	MW	03:50 PM-06:20 PM	MA 222	02/19-06/15
30928	Cheng, T.	MW	06:00 PM-08:30 PM	MA 108	02/19-06/15
30321	Everest, R.	TR	08:50 AM-11:20 AM	MA 124	02/19-06/15
30322	Nguyenhuu, R.	TR	08:50 AM-11:20 AM	MA 207	02/19-06/15
30325	Zhuang, Y.	MTWR	09:30 AM-10:40 AM	MA 108	02/19-06/15
30326	Scott, C.	TR	01:05 PM-03:35 PM	MA 222	02/19-06/15
30313	Everest, R.	TR	01:05 PM-03:35 PM	MA 206	02/19-06/15
30323	Nguyenhuu, R.	TR	01:05 PM-03:35 PM	MA 207	02/19-06/15
31033	Swan, A.	TR	03:50 PM-06:20 PM	MA 222	02/19-06/15
30316	Gonzalez, R.	TR	04:30 PM-07:00 PM	MA 230	02/19-06/15
31032	Scott, C.	TR	06:00 PM-08:30 PM	MA 207	02/19-06/15
30303	Swatzel, J.		HRS-ARRG		02/19-06/15

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Students required to take exams on campus in Testing Center.

| 30304 | Trad, M. | | HRS-ARRG | | 02/19-06/15 |

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de
Students required to take exams on campus in Testing Center.

| 31965 | Medrano, E. | | HRS-ARRG | | 02/19-06/15 |

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

| 31819 | Medrano, E. | MTWR | 08:10 AM-09:20 AM | MA 206 | 02/19-06/15 |
| 31821 | Medrano, E. | MTWR | 10:00 AM-11:10 AM | MA 206 | 02/19-06/15 |

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CRN	Instructor	Days	Time	Room	D

MATH 151   Plane Trigonometry — 4 Units

Prerequisite: MATH 131 or high school Geometry, and MATH 149 or MATH 150 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

CRN	Instructor	Days	Time	Room	D
31902	Ogimachi, T.	MW	05:45 PM-07:50 PM	MA 109	02/19-06/15
31903	Ogimachi, T.	MW	08:00 PM-10:05 PM	MA 109	02/19-06/15
30339	Reagan, D.	TR	10:35 AM-12:40 PM	MA 230	02/19-06/15
30340	Leung, S.	TR	03:45 PM-05:50 PM	MA 109	02/19-06/15
30338	Zhuang, Y.	TR	01:05 PM-03:10 PM	MA 108	02/19-06/15

MATH 160   Survey of Mathematics — 4 Units

Prerequisite: MATH 149 or MATH 150 or placement is based on multiple assessment measures.
A course in mathematical concepts for the liberal arts student. Topics include sets and logic, problem solving, numeration systems, consumer applications, geometry, probability, statistics, and computer applications. 72 lecture hours. CSU

CRN	Instructor	Days	Time	Room	D
30341	Nguyen, T.	MW	03:30 PM-05:35 PM	MA 207	02/19-06/15

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

CRN	Instructor	Days	Time	Room	D
30342	Paek, H.	MW	04:25 PM-06:30 PM	MA 125	02/19-06/15
30351	Paek, H.	TR	04:25 PM-06:30 PM	MA 125	02/19-06/15
32015	Tseng, K.	MTWR	08:00 AM-09:10 AM	MA 125	03/04-06/15

Late Start Class

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

CRN	Instructor	Days	Time	Room	D
31868	Tippins, R.		HRS-ARRG		03/18-06/15

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Late Start Class Begins March 18, 2013

CRN	Instructor	Days	Time	Room	D
31211	Gillotte, C.	MW	03:45 PM-05:50 PM	MA 108	02/19-06/15
30371	Swan, A.	MW	09:15 AM-11:20 AM	MA 125	02/19-06/15
30374	Swatzel, J.	MW	08:20 AM-10:25 AM	MA 124	02/19-06/15
30370	Swan, A.	MW	04:30 PM-06:35 PM	MA 126	02/19-06/15
31030	Gonzalez, R.	MW	01:05 PM-03:10 PM	MA 230	02/19-06/15
30368	Dominguez, V.	MW	02:40 PM-04:45 PM	MA 109	02/19-06/15
30365	Gonzalez, R.	MW	04:00 PM-06:05 PM	MA 230	02/19-06/15
30375	Swan, A.	TR	09:15 AM-11:20 AM	MA 125	02/19-06/15
30372	Anderson, B.	TR	03:20 PM-05:25 PM	MA 126	02/19-06/15
30366	Zhuang, Y.	TR	03:45 PM-05:50 PM	MA 108	02/19-06/15
30391	Tippins, R.		HRS-ARRG		02/19-06/15

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CRN	Instructor	Days	Time	Room	D
31990	Swatzel, J.		HRS-ARRG		02/19-06/15

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de
Students required to take exams on campus in Testing Center.

CRN	Instructor	Days	Time	Room	D
31869	Gonzalez, R.	MW	07:00 PM-09:05 PM	MA 230	02/19-06/15
32001	Kim, E.	MW	01:05 PM-03:10 PM	MA 207	02/19-06/15
32007	Gillotte, C.	MW	06:00 PM-08:05 PM	MA 124	02/19-06/15

MATH 170   College Algebra — 4 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. 72 lecture hours. CSU UC

CRN	Instructor	Days	Time	Room	D
31323	Chun, M.	MW	08:20 AM-10:25 AM	PS 106	02/19-06/15
31314	Tippins, R.	MW	01:35 PM-03:40 PM	MA 222	02/19-06/15
30387	Chun, M.	TR	08:20 AM-10:25 AM	PS 106	02/19-06/15
30386	Gong, C.	TR	01:05 PM-03:10 PM	MA 126	02/19-06/15

CRN	Instructor	Days	Time	Room	D
30390	Tippins, R.		HRS-ARRG		02/19-06/15

DISTANCE EDUCATION CLASS After registering go to www.citruscollege.edu/de

CRN	Instructor	Days	Time	Room	D
32005	Pearsall, S.	F	05:00 PM-09:15 PM	MA 109	02/19-06/15

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

CRN	Instructor	Days	Time	Room	D
30392	Tippins, R.	TR	12:05 PM-02:10 PM	MA 124	02/19-06/15
30394	Tippins, R.	MW	10:35 AM-12:40 PM	MA 124	02/19-06/15
30393	Scott, C.	MW	06:25 PM-08:30 PM	MA 207	02/19-06/15
31958	Kassab, M.	F	07:15 AM-11:30 AM	MA 109	02/19-06/15
32002	Jahani, F.	TR	10:55 AM-01:00 PM	PC 303	02/19-06/15

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

CRN	Instructor	Days	Time	Room	D
30396	Gutierrez, J.	TR	02:30 PM-04:35 PM	MA 124	02/19-06/15
30397	Leung, S.	TR	06:00 PM-08:05 PM	MA 109	02/19-06/15
32016	Kim, E.	MW	07:20 AM-09:45 AM	MA 223	03/04-06/15

Late Start Class

CRN	Instructor	Days	Time	Room	D
31029	Anderson, B.	TR	10:50 AM-12:55 PM	MA 108	02/19-06/15

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

CRN	Instructor	Days	Time	Room	D
30399	Reagan, D.	TR	08:10 AM-10:15 AM	LH 103	02/19-06/15
30398	Anderson, B.	MW	10:50 AM-12:55 PM	MA 108	02/19-06/15
31091	Phan-Yamada, T.	MW	08:30 AM-10:35 AM	PC 303	02/19-06/15

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

CRN	Instructor	Days	Time	Room	D
30400	Gonzalez, R.	TR	01:05 PM-03:10 PM	MA 230	02/19-06/15

MATH 211   Differential Equations — 5 Units

Prerequisite: MATH 210.
First and Second Order (Linear and Non-linear) Differential Equations, with emphasis on modeling applications. Numerical Methods. Basic Linear Algebra. Systems of Linear and Non-linear Differential Equations and their applications. Application of Linear Algebra to Systems. Power Series Methods. 72 lecture hours. CSU UC

CRN	Instructor	Days	Time	Room	D
30401	Gutierrez, J.	TR	06:30 PM-09:00 PM	MA 124	02/19-06/15

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