**Math**

**MATH 017 Basic Math and Study Skills**  
3 Units  
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-02:00 PM MA 223 08/28-12/18
- 20076 Alvarado, N. MW 01:05 PM-02:00 PM MA 126 08/28-12/18
- 20109 Selezinka, R. TR 09:55 AM-11:00 AM ES 610 08/28-12/18
- 20099 Reagan, D. TR 11:30 AM-12:35 PM PS 106 08/28-12/18
- 20703 Swatzel, J. MTWR 08:20 AM-09:45 AM LB 105 08/28-10/23

**FIRST EIGHT WEEK FAST TRACK/LEARNING COMMUNITIES CLASS:**  
Requires enrollment in FAST TRACK MATH 020 CRN 20772 and Counseling 159 CRN 20897.

**MATH 020 Arithmetic Fundamentals**  
3 Units  
Pre-Requisite: 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
- 20120 Low, J. MW 11:30 AM-12:35 PM MA 230 08/28-12/18
- 20161 Kassab, M. MW 05:25 PM-06:50 PM MA 228 08/28-12/18
- 20113 Chun, M. TR 08:20 AM-09:45 AM MA 230 08/28-12/18
- 20138 Lei, L. TR 11:30 AM-12:35 PM MA 230 08/28-12/18
- 20106 Medrano, E. MTWR 08:20 AM-09:45 AM LS 120 08/28-10/23

**Fast Track Class:** Requires enrollment in MATH 020 CRN 21056.

**First Eight Weeks:**
- 20772 Swatzel, J. MTWR 08:20 AM-09:45 AM LB 105 10/25-12/18

**SECOND EIGHT WEEK FAST TRACK/LEARNING COMMUNITIES CLASS:**  
Requires enrollment in MATH 017 CRN 20772 and Counseling 159 CRN 20897.

**MATH 029 Pre-Algebra**  
3 Units  
Pre-Requisite: 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. A first course in geometry. Elementary logic, properties of geometric figures, and the four basic operations of arithmetic on whole numbers, a brief introduction to fractions and decimals, and incorporates study skills for success in mathematics courses. 72 lecture hours.

- 20777 Casey, D. MW 08:20 AM-09:45 AM MA 225 08/28-12/18
- 20184 Chun, M. MW 09:55 AM-11:20 AM MA 225 08/28-12/18
- 20161 Kassab, M. MW 05:45 PM-06:50 PM MA 126 08/28-12/18
- 20076 Alvarado, N. MW 04:00 PM-05:25 PM MA 126 08/28-12/18
- 20070 Trad, M. MW 02:40 PM-03:45 PM MA 225 08/28-12/18

**Fast Track Class:** Requires enrollment in MATH 020 CRN 20837.

**Second Eight Weeks:**
- 20979 Low, J. TR 01:05 PM-02:10 PM MA 230 08/28-12/18

**MATH 130 Elementary Algebra**  
4 Units  
Pre-Requisite: 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.

- 20418 Cummins, B. MTWR 08:20 AM-09:30 AM MA 206 08/28-12/18
- 20270 Trad, M. MTWR 08:25 AM-09:35 AM MA 125 08/28-12/18
- 20805 Tussy, A. MTWR 11:30 AM-12:40 PM MA 222 08/28-12/18
- 20981 Trad, M. MTWR 11:30 AM-12:40 PM LB 105 08/28-12/18
- 20390 Swan, A. MTWR 11:35 AM-12:45 PM ES 616 08/28-12/18
- 20254 Morrison, J. MW 07:15 AM-09:45 AM MA 233 08/28-12/18
- 20264 Luu, K. MW 07:15 AM-09:45 AM PS 106 08/28-12/18
- 20305 Gong, C. MW 09:55 AM-12:25 PM MA 126 08/28-12/18
- 20287 Morrison, J. MW 10:10 AM-12:40 PM MA 233 08/28-12/18
- 20394 Gong, C. MW 01:05 PM-03:35 PM MA 124 08/28-12/18
- 20307 Rider, L. MW 01:05 PM-03:35 PM MA 109 08/28-12/18
- 20232 Nguyenhui, R. MW 01:05 PM-03:35 PM ES 616 08/28-12/18
- 20256 Paek, H. MW 01:05 PM-03:35 PM MA 125 08/28-12/18
- 20303 Morrison, J. MW 02:45 PM-05:15 PM MA 223 08/28-12/18
- 20403 Swan, A. MW 03:50 PM-06:20 PM MA 125 08/28-12/18
- 20970 Kassab, M. MW 07:00 PM-09:30 PM MA 222 08/28-12/18
- 20369 Luu, K. TR 07:15 AM-09:45 AM PS 106 08/28-12/18
- 20282 Low, J. TR 01:05 PM-03:35 PM MA 109 08/28-12/18
- 20406 Casey, D. TR 01:05 PM-03:35 PM ES 616 08/28-12/18
- 20297 Nguyen, C. TR 01:05 PM-03:35 PM MA 222 08/28-12/18
- 20397 Swatzel, J. TR 03:50 PM-06:20 PM MA 222 08/28-12/18
- 20977 Ng, S. TR 05:25 PM-07:55 PM MA 109 08/28-12/18
- 20781 Nguyen, C. TR 04:20 PM-06:50 PM MA 230 08/28-12/18
- 20411 Scott, C. TR 07:00 PM-09:30 PM MA 222 08/28-12/18
- 21035 Medrano, E. TR 01:05 PM-03:35 PM MA 222 08/28-12/18
- 20293 Trad, M. MTWR 10:00 AM-11:10 AM MA 124 08/28-12/18

**LEARNING COMMUNITIES CLASS:** Requires enrollment in Counseling 160 CRN 20944.

**MATH 131 Plane Geometry**  
4 Units  
Pre-Requisite: MATH 130 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.

- 20427 Gutierrez, J. TR 01:05 PM-03:10 PM MA 126 08/28-12/18
### Schedule of Credit Classes - Fall 2010

**Note:** Course Dates indicate Beginning and Ending Dates

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
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<tbody>
<tr>
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<td>Nguyenhuu, R.</td>
<td>MW</td>
<td>09:55 AM-11:10 AM</td>
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<td>08/28-12/18</td>
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<td>20472</td>
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<td>TR</td>
<td>09:55 AM-11:20 AM</td>
<td>MA 126</td>
<td>08/28-12/18</td>
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</tbody>
</table>

### MATH 148 Intermediate Algebra I

**2.5 Units:**

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

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
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<tbody>
<tr>
<td>20470</td>
<td>Nguyenhuu, R.</td>
<td>MW</td>
<td>09:55 AM-11:10 AM</td>
<td>MA 108</td>
<td>08/28-12/18</td>
</tr>
</tbody>
</table>

### MATH 149 Intermediate Algebra II

**2.5 Units:**

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

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>20470</td>
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<td>MW</td>
<td>09:55 AM-11:10 AM</td>
<td>MA 108</td>
<td>08/28-12/18</td>
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</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>20470</td>
<td>Nguyenhuu, R.</td>
<td>MW</td>
<td>09:55 AM-11:10 AM</td>
<td>MA 108</td>
<td>08/28-12/18</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
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<tbody>
<tr>
<td>20610</td>
<td>Gonzalez, R.</td>
<td>MTWR</td>
<td>10:00 AM-11:10 AM</td>
<td>MA 222</td>
<td>08/28-12/04</td>
</tr>
<tr>
<td>20606</td>
<td>Everest, R.</td>
<td>MW</td>
<td>08:50 AM-10:55 AM</td>
<td>MA 207</td>
<td>08/28-12/18</td>
</tr>
<tr>
<td>20613</td>
<td>Casey, D.</td>
<td>MW</td>
<td>01:05 PM-03:10 PM</td>
<td>PS 106</td>
<td>08/28-12/18</td>
</tr>
<tr>
<td>20615</td>
<td>Riderer, L.</td>
<td>TR</td>
<td>04:45 PM-06:50 PM</td>
<td>MA 125</td>
<td>08/28-12/18</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
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<tbody>
<tr>
<td>20618</td>
<td>Paek, H.</td>
<td>TR</td>
<td>01:05 PM-03:10 PM</td>
<td>MA 125</td>
<td>08/28-12/18</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
<th>D</th>
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<tbody>
<tr>
<td>20623</td>
<td>Swan, A.</td>
<td>MW</td>
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<td>08/28-12/18</td>
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<tr>
<td>20666</td>
<td>Anderson, B.</td>
<td>MW</td>
<td>09:55 AM-12:00 PM</td>
<td>MA 125</td>
<td>08/28-12/18</td>
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<tr>
<td>20644</td>
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<td>MW</td>
<td>02:40 PM-04:45 PM</td>
<td>MA 206</td>
<td>08/28-12/18</td>
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<tr>
<td>20639</td>
<td>Gutierrez, J.</td>
<td>TR</td>
<td>07:40 AM-09:45 AM</td>
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<td>08/28-12/18</td>
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<tr>
<td>20632</td>
<td>Swan, A.</td>
<td>TR</td>
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<td>08/28-12/18</td>
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<tr>
<td>20636</td>
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<td>TR</td>
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<td>MA 125</td>
<td>08/28-12/18</td>
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<tr>
<td>20651</td>
<td>Zhuang, Y.</td>
<td>TR</td>
<td>01:05 PM-03:10 PM</td>
<td>MA 108</td>
<td>08/28-12/18</td>
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<tr>
<td>21060</td>
<td>Zhuang, Y.</td>
<td>TR</td>
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<tr>
<td>20791</td>
<td>Tippins, R.</td>
<td>HRS-ARRG</td>
<td>09/27-12/18</td>
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</table>

### MATH 168 Mathematics for Elementary Teachers I

**3 Units**

- **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

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
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<tr>
<td>20647</td>
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<td>01:05 PM-03:10 PM</td>
<td>MA 206</td>
<td>08/28-12/18</td>
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<tr>
<td>20648</td>
<td>Gong, C.</td>
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<td>MA 206</td>
<td>08/28-12/18</td>
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<tr>
<td>20649</td>
<td>Gong, C.</td>
<td>R</td>
<td>02:05 PM-03:10 PM</td>
<td>MA 206</td>
<td>08/28-12/18</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>CRN</th>
<th>Instructor</th>
<th>Days</th>
<th>Time</th>
<th>Room</th>
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<tbody>
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<td>20654</td>
<td>Chun, M.</td>
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<tr>
<td>20655</td>
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<tr>
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<td>08:20 AM-09:45 AM</td>
<td>MA 126</td>
<td>08/28-12/18</td>
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<tr>
<td>20652</td>
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<td>TR</td>
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<td>MA 126</td>
<td>08/28-12/18</td>
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<tr>
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<td>08/28-12/18</td>
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<td>HRS-ARRG</td>
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</tbody>
</table>

### DISTANCE EDUCATION CLASS

- **After registering go to www.citruscollege.edu/de**

### CONTACT INFORMATION

Register online at citruscollege.edu/ar  WingSpan Registration Help Desk (626) 914-8833  Admissions and Records office (626) 725-6700
### Schedule of Credit Classes - Fall 2010

**Note:** Course Dates indicate Beginning and Ending Dates

<table>
<thead>
<tr>
<th>CRN</th>
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<td>08/28-12/18</td>
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<td>08/28-12/18</td>
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<td>MTWR</td>
<td>09:55 AM-11:05 AM</td>
<td>PS 106</td>
<td>08/28-12/04</td>
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<td>TR</td>
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<td>MW</td>
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<td>08/28-12/18</td>
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<td>01:05 PM-03:10 PM</td>
<td>MA 223</td>
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</table>

**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

**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

**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

**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

**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

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