These courses may be taken in any order after completion of Math 251; however, students are advised to complete Math 252 and Math 254 before enrolling in Math 253

(+): Some sections of these courses may be linked to a co-requisite support course. Based on their placement, students may:
- Need to take a section with support.
- Place into the course without support, but opt to enroll in a section with support.
MATHEMATICS COURSE PATHWAYS FOR LIBERAL ARTS AND OTHER NON-SCIENCE MAJORS
EFFECTIVE FALL 2019

AA DEGREE OR LIBERAL ARTS MAJORS

Choose one of the four paths listed below

Please speak to a Counselor to ensure you are choosing the correct path for your major and transfer institution

Math 100 and Math 118 may require enrollment into a co-requisite support course depending on placement

Students may choose co-requisite support even if it is not required

Based on Placement, students may need to begin in Math 60—Intermediate Algebra I prior to enrolling in Math 118 or Psyc/Soc 270

Math 100
Mathematics for General Education
(3 units; D, CSU)

Math 60
Intermediate Algebra I
(4 units)

Math 57
Statway I
(5 units)

Math 100
Mathematics for General Education
(3 units; D, CSU)

Math 82 Support
Concurrent enrollment may be required (+ 2 units)

Math 60
Intermediate Algebra I
(4 units; D, CSU)

Math 118
Finite Mathematics
(3 units; D, CSU; UC)

Math 82 Support
Concurrent enrollment may be required (+ 2 units)

Math 60
Intermediate Algebra I
(4 units; D, CSU)

Math 115
Statway II
(4 units; D, CSU)

Math 82 Support
Concurrent enrollment may be required (+ 2 units)

Math 60
Intermediate Algebra I
(4 units)

Psyc/Soc 270
Statistics for the Behavioral Sciences
(3 units; D; CSU; UC)

OPTIONAL COURSES
Regardless of placement, students may follow the following sequence if they wish to improve their algebra skills:

Prior to taking a transfer level math course (Math 100, 110, or 118)

For personal enrichment

Math 35
Pre-algebra
(4 units)

Math 45
Elementary Algebra
(4 units)

Math 60
Intermediate Algebra I
(4 units)

Math 35
Pre-algebra
(4 units)

Math 45
Elementary Algebra
(4 units)

Math 60
Intermediate Algebra I
(4 units)

Math 48
Developmental Mathematics
(3 units)

Math 110
Mathematics for Elementary School Teachers I
(4 units; D, CSU; UC)

Math 82 Support
Concurrent enrollment may be required (+ 2 units)

Math 111
Mathematics for Elementary School Teachers II
(4 units; D, CSU; UC)

Math 112
Children’s Mathematical Thinking
(1 unit; D, CSU)

Math 60
Intermediate Algebra I
(4 units)

Math 110
Mathematics for Elementary School Teachers I
(4 units; D, CSU; UC)

Math 82 Support
Concurrent enrollment may be required (+ 2 units)

Math 111
Mathematics for Elementary School Teachers II
(4 units; D, CSU; UC)

Math 112
Children’s Mathematical Thinking
(1 unit; D, CSU)
MATHEMATICS COURSE PATHWAYS FOR
MATH, ENGINEERING AND COMPUTER SCIENCE MAJORS
EFFECTIVE FALL 2019

MATH AND ENGINEERING

Based on Placement

- May need to begin in Math 72 — Intermediate Algebra I & II prior to enrolling in Math 101 or Math 244
- May be required to enroll in Math 101 with support
- May choose co-requisite support even if it is not required
- May be able to enroll in Math 244 directly

Math 72 (+)
Intermediate Algebra I & II (6 units)

Math 101
College Algebra (3 units)
(D, CSU, UC)

Math 104
Trigonometry (3 units)
(D, CSU, UC)

Math 83 Support
Concurrent enrollment may be required (+ 2 units)

Math 86 Support
Concurrent enrollment may be required (+ 2 units)

Math 244
Pre-calculus (6 units)
(D, CSU, UC)

Math 250
Analytic Geometry and Calculus I
(prerequisite: Math-244 OR Math-101 and 104)
(5 units; D, CSU, UC)

Math 251
Analytic Geometry and Calculus II
(4 units; D, CSU, UC)

Math 252
Analytic Geometry and Calculus III
(4 units; D, CSU, UC)

Math 254
Intro to Linear Algebra
(3 units; D, CSU, UC)

Math 253 *
Introduction to Differential Equations
(3 units; D, CSU, UC)

Additional Math Electives

Math 130
Intro to Computer Programming

Math 265
Discrete Structures

Math 119
Elementary Statistics

COMPUTER SCIENCE

Based on Placement

- May need to begin in Math 72 — Intermediate Algebra I & II prior to enrolling in Math 130

Math 72 (+)
Intermediate Algebra I & II (6 units)

Math 130
Introduction to Computer Programming
(3 units; D, CSU, UC)

Math 140
Data Structures and Algorithms
(3 units; D, CSU, UC)

Math 230
Computer Organization and Architecture
(3 units; D, CSU, UC)

Math 254
Intro to Linear Algebra

Math 253 *
Introduction to Differential Equations
(prerequisite: Math 251 or 122; AND Math 130)
(3 units; D, CSU, UC)

Math 265
Discrete Structures
(prerequisite: Math 251 or 122; AND Math 130)
(3 units; D, CSU, UC)

Math 250 *
Analytic Geometry and Calculus I

Math 251 *
Analytic Geometry and Calculus II

Math 252 *
Analytic Geometry and Calculus III

Math 253 *
Introduction to Differential Equations
(3 units; D, CSU, UC)

Math 130
Introduction to Computer Programming
(3 units; D, CSU, UC)

Math 265
Discrete Structures

Math 244
Pre-calculus (6 units)
(D, CSU, UC)

Math 35
Pre-algebra (4 units)

Math 45
Elementary Algebra (4 units)

Math 72
Intermediate Algebra I & II (6 units)

Math 122**
Applied Calculus II

Additional Math Electives

Math 35
Pre-algebra (4 units)

Math 45
Elementary Algebra (4 units)

Math 72
Intermediate Algebra I & II (6 units)

Math 48
Developmental Mathematics (3 units)

OPTIONAL COURSES

Regardless of placement, students may follow the following sequence if they wish to improve their algebra skills:
- Prior to taking a transfer level math course (Math 101, 104, 130, 121, 120, 119, or 244)
- For personal enrichment

Math 35
Pre-algebra (4 units)

Math 45
Elementary Algebra (4 units)

Math 72
Intermediate Algebra I & II (6 units)

Math 48
Developmental Mathematics (3 units)

* Students are advised to complete Math 252 and Math 254 before enrolling in Math 253

** Please see Life Science Program for Math 122 pre-requisites.

* Please see Math and Engineering Program for Math 251 pre-requisites.
MATHEMATICS COURSE PATHWAYS FOR
BUSINESS AND LIFE SCIENCE MAJORS
EFFECTIVE FALL 2019

LIFE SCIENCE

Based on Placement students:
- May need to begin in Math 72—Intermediate Algebra I & II prior to taking Math 121
- May be required to enroll in concurrent support for Math 121
- May choose co-requisite support even if it is not required

Math 72 (+)
Intermediate Algebra I & II (STEM/Business Majors)
(6 units)

Math 121
Applied Calculus I
(3 units; D, CSU, UC)

Math 85 Support
Concurrent enrollment may be required
(+ 2 units)

Math 122
Applied Calculus II
(3 units; D, CSU, UC)

Some transfer institutions may require a different Calculus sequence.
Please consult with a Counselor

BUSINESS

Based on Placement results students:
- May need to begin in Math 72—Intermediate Algebra I and II prior taking Math 120 or Math 119
- May be required to enroll in concurrent support for Math 119 or Math 120
- May choose co-requisite support even if it is not required

Math 72 (+)
Intermediate Algebra I & II (STEM/Business Majors)
(6 units)

Math 120
Calculus for Business Analysis
(4 units; D, CSU, UC)

Math 84
Concurrent enrollment may be required
(+ 2 units)

Math 119
Elementary Statistics
(4 units; D, CSU, UC)

OPTIONAL COURSES

Regardless of placement, students may follow the following sequence if they wish to improve their algebra skills:
- Prior to taking a transfer level math course (Math 101, 104, 130, 121, 120, 119, or 244)
- For personal enrichment

Math 35
Pre-algebra
(4 units)

Math 45
Elementary Algebra
(4 units)

Math 72
Intermediate Algebra I & II
(6 units)

Math 48
Developmental Mathematics
(3 units)