

Mathematics

MATH-002NC Fundamental Math Skills for the Statistics Pathway - Noncredit

0 units SC

- 24 hours laboratory per term

This noncredit course focuses on the specific math and study skills necessary for success in transfer-level statistics courses. Through practice and group work, students are prepared to enroll in statistics with confidence.

MATH-003NC Fundamental Math Skills for Business and STEM Pathways - Noncredit

0 units SC

- 24 hours laboratory per term

This noncredit course focuses on the specific math and study skills necessary for success in transfer-level math courses in the Business or STEM pathways. Through practice and group work, students are prepared to enroll in transfer-level math with confidence.

MATH-021 Support for Success in MATH-121 Plane Trigonometry

1 unit P/NP

- Non degree applicable
- 9 hours lecture/27 hours of laboratory per term
- Co-requisite: MATH-121 or equivalent
- Note: This course provides students with support to be successful in MATH-121 Plane Trigonometry. Studies show significantly improved success rates for students who enroll in a support course to accompany their transfer-level math course. This course is a co-requisite to MATH-121 and provides additional support for students who want to feel more confident in their math skills.

This course provides students with academic support to be successful in MATH-121 Plane Trigonometry. Additional practice with math concepts directly relevant to MATH-121 are integrated into instruction, as well as study skills strategies, mindset, and other academic supports.

MATH-035 Support for Success in MATH-135 College Algebra

2 units P/NP

- Non degree applicable
- 18 hours lecture/54 hours of laboratory per term
- Co-requisite: MATH-135 or equivalent
- Note: This course provides students with support to be successful in MATH-135 College Algebra. Studies show significantly improved success rates for students who enroll in a support course to accompany their transfer-level math course. This course is a co-requisite to MATH-135 and provides additional support for students who want to feel more confident in their math skills.

This course provides students with academic support to be successful in MATH-135 College Algebra. Additional practice with math concepts directly relevant to MATH-135 are integrated into instruction, as well as study skills strategies, mindset, and other academic supports.

MATH-040 In-Progress Arithmetic and Basic Algebra Review Self-Paced

4 units P/NP

- Non degree applicable
- 216 hours laboratory per term
- Note: Students do not enroll directly in this course. Enrollment is limited to transfer by instructor.

This course is designed to allow students who are enrolled in MATH-085SP to receive non-degree applicable credit for mastery of some but not all of the outcomes in MATH-085SP. In order to receive credit for MATH-040, students must enroll in MATH-085SP and make reasonable progress through the content.

MATH-041 In-Progress Beginning and Intermediate Algebra Self-Paced

4 units P/NP

- Non degree applicable
- 216 hours laboratory per term
- Advisory: MATH-085 or MATH-085SP or beginning algebra or equivalent.
- Note: Students do not enroll directly in this course. Enrollment is limited to transfer by instructor.

This course is designed to allow students who are enrolled in MATH-119SP to receive non-degree applicable credit for mastery of some but not all of the outcomes in MATH-119SP. In order to receive credit for MATH-041, students must enroll in MATH-119SP and make reasonable progress through the content.

MATH-042 Support for Success in MATH-142 Elementary Statistics W/ Probability

1 unit P/NP

- Non degree applicable
- 9 hours lecture/27 hours of laboratory per term
- Co-requisite: MATH-142 or equivalent
- Note: This course provides students with support to be successful in MATH-142 Elementary Statistics with Probability. Studies show significantly improved success rates for students who enroll in a support course to accompany their transfer-level math course. This course is a co-requisite to MATH-142 and provides additional support for students who want to feel more confident in their math skills. Includes use of TI-83/84+ calculators and statistical software.

This course provides students with academic support to be successful in MATH-142 Elementary Statistics with Probability. Additional practice with math concepts directly relevant to MATH-142 are integrated into instruction, as well as study skills strategies, mindset, and other academic supports.

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MATH-053 In-Progress College Algebra Self-Paced

4 units P/NP

- Non degree applicable
- 216 hours laboratory per term
- Advisory: Placement into MATH-135 or MATH-085 or MATH-085SP or beginning algebra or equivalent.
- Note: Students do not enroll directly in this course. Enrollment is limited to transfer by instructor.

This course is designed to allow students enrolled in MATH-135SP to receive credit for mastery of some but not all of the outcomes in MATH-135SP. In order to receive credit for MATH-053, students must enroll in MATH-135SP and make reasonable progress through the content.

MATH-054 In-Progress Pre-Calculus Self-Paced

5 units P/NP

- Non degree applicable
- 270 hours laboratory per term
- Prerequisite: Placement into MATH-191; or MATH-121; or assessment process equivalent
- Note: Students do not enroll directly in this course. Enrollment is limited to transfer by instructor. A scientific calculator is required.

This course is designed to allow students enrolled in MATH-191SP to receive credit for mastery of some but not all of the outcomes in MATH 191SP. In order to receive credit for MATH 054, students must enroll in MATH-191SP and make reasonable progress through the content.

MATH-077 Summer Bridge to College Math

1 unit LR

- Non degree applicable
- 40 hours laboratory per term
- Note: This course is part of the EOPS Summer Institute Learning Community and is designed for recent high school graduates. Math/English placement processes are required. Contact the EOPS Summer Institute Coordinator for more information.

This course is designed to help students transition to math in college from high school. Students work with an instructor and web-based software to assess and build math skills in preparation for a college math course.

MATH-080 Topics in Basic Skills Math

.3-4 units SC

- Non degree applicable
- Variable hours

This is a supplemental course in mathematics to provide a variety of topics for basic skills students. Specific topics will be announced in the schedule of classes.

MATH-081 Support for Success in Math-181 Finite Math

1 unit P/NP

- Non degree applicable
- 18 hours lecture per term
- Co-requisite: MATH-181 or Equiv.
- Note: This course provides students with support to be successful in MATH-181 Finite Mathematics. Studies show significantly improved success rates for students who enroll in a support course to accompany their transfer-level math course. This course is a co-requisite to MATH-181 and provides additional support for students who want to feel more confident in their math skills. Corequisite: MATH-181 or equivalent

This course provides students with academic support to be successful in MATH-181 Finite Mathematics. Additional practice with math concepts directly relevant to MATH-181 are integrated into instruction, including assistance with study skills strategies as needed.

MATH-085 Arithmetic and Basic Algebra Review

4 units SC

- Non degree applicable
- 54 hours lecture/54 hours laboratory per term
- Note: Studies of student success strongly suggest that degree-bound students should enroll in a math class at higher-level than MATH-085. Go to <https://www.dvc.edu/enrollment/assessment/index.html> and complete the online placement process, then make an appointment with a counselor to discuss placement.

This course is a review of topics of arithmetic and basic algebra. Topics include arithmetic, fractions, percentages, problem solving, solving basic equations, graphing lines, and systems of equations. Students who intend to earn a college degree are strongly discouraged from enrolling in this course if they have successfully completed a course equivalent to high school Algebra I.

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**MATH-085SP Arithmetic and Basic Algebra
Review-Self-Paced**

4 units SC

- Non degree applicable
- 216 hours laboratory per term
- Note: Studies of student success strongly suggest that degree-bound students should enroll in a math class at higher-level than MATH-085. Go to <https://www.dvc.edu/enrollment/assessment/index.html> and complete the online placement process, then make an appointment with a counselor to discuss placement. In this computer-assisted, flexibly-paced class, students will utilize an online learning system for their initial instruction, as well as receive assistance during weekly face-to-face meetings. Students will have some flexibility on how much time they take to learn topics and when they take assessments, though minimum requirements and deadlines will apply. The online assignments require computer access and may be completed either on or off campus. The face-to-face meetings will be held in the DVC Math Lab (for lab schedule go to www.dvc.edu/PHCmathlab for Pleasant Hill or www.dvc.edu/SRCmathlab for SRC). Students are encouraged to complete MATH-085SP in one semester, or take up to 2 semesters. MATH-085SP is equivalent to MATH-085; students who have completed MATH-085 will not receive credit for MATH-085SP.

This course is a computer-assisted, flexibly-paced class equivalent to MATH-085. This course is a review of topics of arithmetic and basic algebra. Topics include arithmetic, fractions, percentages, problem solving, solving basic equations, graphing lines, and systems of equations. Students who intend to earn a college degree are strongly discouraged from enrolling in this course if they have successfully completed a course equivalent to high school Algebra I.

MATH-091 Support for Success in MATH-191 Pre-Calculus

1 unit P/NP

- Non degree applicable
- 18 hours lecture per term
- Co-requisite: MATH-191 or equivalent
- Note: This course provides students with support to be successful in MATH-191 Pre-Calculus. Studies show significantly improved success rates for students who enroll in a support course to accompany their transfer-level math course. This course is a co-requisite to MATH-191 and provides additional support for students who want to feel more confident in their math skills.

This course provides students with academic support to be successful in MATH-191 Pre-Calculus. Additional practice with math concepts directly relevant to MATH-191 are integrated into instruction, including assistance with study skills strategies as needed.

MATH-092 Math for Trade Pre-Apprentices

4 units P/NP

- Non degree applicable
- 72 hours lecture per term
- Note: This course is part of the Pre-Apprenticeship program.

This course provides practice in the mathematics needed to pass apprenticeship exams for various trades, as well as the mathematics required by apprentices on the job site. This course offers mathematics instruction contextualized for the building trades.

MATH-094 Statway I

4 units SC

- Non degree applicable
- 54 hours lecture/54 hours laboratory per term
- Note: Graphing calculator, computer, or other technology required.

This is the first semester of a two-semester course that introduces the concepts of probability and statistics with requisite arithmetic and algebraic topics integrated throughout. It is intended for students in humanities or social sciences majors. Topics include data collection, organization and graphical interpretation of data, qualitative and quantitative data sets, measures of central tendency and measures of dispersion, bivariate data and scatter plots, linear functions and their graphs, nonlinear functions and their graphs, and linear and exponential/logarithmic models. Learning strategies for success with an emphasis on study skills, resource acquisition, and maintaining a positive perspective towards learning are also discussed and applied.

MATH-114 Geometry

3 units SC

- DVC GE: IC
- 54 hours lecture per term
- Prerequisite: Placement into MATH-121; or MATH-085 or MATH-085SP or Equiv.

Students will investigate the properties of lines, polygons, and circles using deductive reasoning. Geometric theorems, formulas for perimeter, area, and volume for a variety of plane and solid geometric objects are presented.

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MATH-119 Beginning and Intermediate Algebra

4 units SC

- DVC GE: IC
- 54 hours lecture/54 hours laboratory per term
- Advisory: MATH-085 or MATH-085SP or beginning algebra or equivalent.
- Note: Studies of student success strongly suggest that degree-bound students should enroll in a math class at higher-level than MATH-119. Complete the online placement process, then make an appointment with a counselor to discuss placement.

This course is a review of topics in Algebra. Topics include factoring polynomials, fractional equations, inequalities, logarithms, exponentials, and functions. This course is intended for students who have not successfully completed a course equivalent to high school intermediate Algebra and who plan to take MATH-121 Plane Trigonometry or MATH-135 College Algebra.

MATH-119SP Beginning and Intermediate Algebra Self-Paced

4 units SC

- DVC GE: IC
- 216 hours laboratory per term
- Advisory: MATH-085 or MATH-085SP or beginning algebra or equivalent.
- Note: Studies of student success strongly suggest that degree-bound students should enroll in a math class at higher-level than MATH-119. Complete the online placement process, then make an appointment with a counselor to discuss placement. Note: In this computer-assisted, flexibly-paced class, students will utilize an online learning system for their initial instruction, as well as receive assistance during weekly face-to-face meetings. Students will have some flexibility on how much time they take to learn topics and when they take assessments, though minimum requirements and deadlines will apply. The online assignments require computer access and may be completed either on or off campus. The face-to-face meetings will be held in the DVC Math Lab (for lab schedule go to www.dvc.edu/PHCmathlab for Pleasant Hill or www.dvc.edu/SRCmathlab for SRC). Students are encouraged to complete MATH-119SP in one semester, or take up to 2 semesters. MATH-119SP is equivalent to MATH-119; students who have completed MATH-119 will not receive credit for MATH-119SP.

This course is a computer-assisted, flexibly-paced class equivalent to MATH-119. This course is a review of topics in Algebra. Topics include factoring polynomials, fractional equations, inequalities, logarithms, exponentials, and functions. This course is intended for students who have not successfully completed a course equivalent to intermediate Algebra and who plan to take Trigonometry (MATH-121) or College Algebra (MATH-135).

MATH-121 Plane Trigonometry

3 units SC

- CSU GE: B4; DVC GE: IC
- 54 hours lecture per term
- Prerequisite: Placement into MATH-121; or MATH 119; or MATH-119SP; or MATH-021 (may be taken concurrently with MATH-121); or intermediate algebra or equivalent.
- Advisory: High school geometry or equivalent

This course focuses on the theory and applications of trigonometry, including right triangle trigonometry, general angle trigonometry, and trigonometry on the unit circle, as well as trigonometric functions of real numbers. Applications include solutions of right and oblique triangles in problems in surveying, physics, engineering, and navigation. CSU

MATH-124 Mathematics for Liberal Arts

3 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 54 hours lecture per term
- Prerequisite: Placement into MATH-124; or MATH-119; or MATH-119SP; or intermediate algebra or equivalent.

This course presents applications of techniques and concepts of intermediate algebra and critical thinking to the solving of contemporary problems in mathematics. Emphasis is placed on statistics, finance, and voting/apportionment. Other topics may include sets, graph theory, exponential functions, logarithmic scales, probability, geometry, or cultural aspects of mathematics. Historical context of some of the great ideas of mathematics will also be explored. CSU, UC

MATH-125 Mathematical Concepts for Elementary School Teachers

3 units SC

- CSU GE: B4; DVC GE: IC
- 54 hours lecture per term
- Prerequisite: Placement into MATH-121 or higher; or MATH-119; or MATH-119SP; or intermediate algebra or equivalent.

This course focuses on the development of quantitative reasoning skills through in-depth, integrated explorations of topics in mathematics, including real number systems and subsystems. Emphasis is on comprehension and analysis of mathematical concepts and applications of logical reasoning. C-ID MATH 120, CSU, UC

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MATH-135 College Algebra

4 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 72 hours lecture per term
- Prerequisite: Placement into MATH-135 or MATH-119 or MATH-119SP or MATH-035 (may be taken concurrently with MATH-135) or intermediate algebra or equivalent

This course presents a study of functions and their graphs, including polynomial, rational, radical, exponential, absolute value, logarithmic and inverse functions. Other topics include systems of equations, theory of polynomial equations, analytic geometry, and inequalities. CSU, UC (credit limits may apply to UC - see counselor)

MATH-135SP College Algebra - Self-Paced

4 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 216 hours laboratory per term
- Prerequisite: Placement into MATH-135 or MATH-119 or MATH-119SP or intermediate algebra or equivalent
- Note: In this computer-assisted, flexibly-paced class, students will utilize an online learning system for their initial instruction, as well as receive assistance during weekly face-to-face meetings. Students will have some flexibility on how much time they take to learn topics and when they take assessments, though minimum requirements and deadlines will apply. The online laboratories require computer access and may be completed either on or off campus. The face-to-face meetings will be held in the DVC Math Lab (for lab schedule go to www.dvc.edu/PHCmathlab for Pleasant Hill or www.dvc.edu/SRCmathlab for SRC). Students are encouraged to complete MATH-135SP in one semester, or take up to 2 semesters. MATH-135SP is equivalent to MATH-135; students who have completed MATH-135 will not receive credit for MATH-135SP.

This course is a computer-assisted, flexibly-paced class, equivalent to MATH-135. This course presents a study of functions and their graphs, including polynomial, rational, radical, exponential, absolute value, logarithmic and inverse functions. Other topics include systems of equations, theory of polynomial equations, analytic geometry, and inequalities. CSU, UC (credit limits may apply to UC - see counselor)

MATH-140 Tutor Training

1 unit LR

- 10 hours lecture/17 hours laboratory/7 hours laboratory by arrangement per term
- Prerequisite: MATH-142; or MATH-144; or MATH-182; or MATH-191; or placement into MATH-192 or equivalent
- Advisory: College-level reading and writing are expected.

This course presents the basic principles and methods of tutoring, including the tutoring sequence, leading and probing questions, communication skills, and learning theory. Topics include the application of tutoring techniques to specific areas of mathematics including algebra, trigonometry, and pre-calculus. Students will receive instruction to help tutees with special needs. CSU

MATH-142 Elementary Statistics with Probability

4 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 72 hours lecture per term
- Prerequisite: Placement into MATH-142; or MATH 119; or MATH-119SP; or MATH-042 (may be taken concurrently with MATH-142); or intermediate algebra. Or Equiv.
- Note: Graphing calculator, computer, or other technology required.

This course is designed to introduce the student to the study of statistics and probability. Topics include descriptive statistics (organization of data, histograms and measures of central tendency and spread), linear correlation and regression, design of experiments, introductory probability, random variables, the normal distribution and student's t-distribution, and statistical inference, including confidence intervals and tests of significance. Use of a graphing calculator or computer for statistical analysis is required. C-ID MATH 110, CSU, UC (credit limits may apply to UC - see counselor)

MATH-144 Statway II

4 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 54 hours lecture/54 hours laboratory per term
- Prerequisite: MATH-094 or equivalent
- Note: Graphing calculator, computer, or other technology required.

This is the second semester of a two-semester course that introduces the concepts of probability and statistics with requisite arithmetic and algebraic topics integrated throughout. It is intended for students in humanities or social sciences majors. Topics include sampling distributions, the Central Limit theorem, confidence intervals and hypothesis testing for means and proportions, chi square tests and mathematical modeling. Learning strategies for success with an emphasis on study skills, resource acquisition, and maintaining a positive perspective towards learning are also discussed and applied. C-ID Math 110, CSU, UC (credit limits may apply to UC - see counselor)

MATH-150 Topics in Mathematics

.3-4 units SC

- Variable hours

A supplemental course in mathematics to provide a study of current concepts and problems. Specific topics will be announced in the schedule of classes. CSU

Mathematics

MATH-181 Finite Mathematics

3 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 54 hours lecture per term
- Prerequisite: Placement into MATH-181; or MATH-119; or MATH-119SP; or MATH-081 (may be taken concurrently with MATH-181); or intermediate algebra or equivalent.
- Note: TI-83 or TI-84 graphing calculator required.

This course applies intermediate algebra and critical thinking to the solution of contemporary problems in business and the life sciences. Topics include linear models, systems of linear equations and inequalities, linear programming (with geometric method and the simplex method), matrix equations, sets and probabilities, and finance. Students will use a graphing calculator or computer software to manipulate matrices. C-ID MATH 130, CSU, UC

MATH-182 Calculus for Management, Life Science and Social Science I

4 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 72 hours lecture per term
- Prerequisite: Placement into MATH-182; or MATH-135; or MATH-135SP; or MATH-191; or MATH-191SP; or assessment process or equivalent.
- Advisory: College-level reading and writing are expected.

The first in a two-term calculus sequence for management, life science, and social science majors. Topics include the derivative and its applications (including curve sketching, optimization, and rates of change), an introduction to the integral (including Riemann sums and the Fundamental Theorem of Calculus) and its applications. C-ID MATH 140, CSU, UC (credit limits may apply to UC - see counselor)

MATH-183 Calculus for Management, Life Science, and Social Science II

4 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 72 hours lecture per term
- Prerequisite: MATH-182 or equivalent
- Advisory: MATH-121 or equivalent; College-level reading and writing are expected.

This is the second course in a two-term sequence in calculus for management, life science, and social science majors, and is a continuation of MATH-182. Topics include techniques of integration, applications of the integral, multivariable functions, differential equations, and Taylor polynomials. CSU, UC (credit limits may apply to UC - see counselor)

MATH-191 Pre-Calculus

5 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 90 hours lecture per term
- Prerequisite: Placement into MATH-191; or MATH-121; or equivalent.
- Note: This course has a technology requirement. See individual instructor for further information.

This course is an in-depth treatment of functions and their graphs, including polynomial, rational, logarithmic, exponential and trigonometric functions. Nonlinear systems, vectors and complex numbers are also covered. Use of a graphing calculator or a computer algebra system is required. C-ID MATH 155, CSU, UC (credit limits may apply to UC - see counselor)

MATH-191SP Pre-Calculus - Self Paced

5 units SC

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 270 hours laboratory per term
- Prerequisite: Placement into MATH-191; or MATH-121; or equivalent
- Note: Credit by examination option available. Note: In this computer-assisted, flexibly-paced class, students will utilize an online learning system for their initial instruction, as well as receive assistance during weekly face-to-face meetings. Students will have some flexibility on how much time they take to learn topics and when they take assessments, though minimum requirements and deadlines will apply. The online labs require computer access and may be completed either on or off campus. The face-to-face meetings will be held in the DVC Math Lab (for lab schedule go to www.dvc.edu/PHCmathlab for Pleasant Hill or www.dvc.edu/SRCmathlab for SRC). Students are encouraged to complete MATH 191SP in one semester, or take up to 2 semesters. Students who have successfully completed MATH-191 will not receive credit for MATH -191SP.

This course is a computer-assisted, flexibly-paced class equivalent to MATH-191. This course is an in-depth treatment of functions and their graphs, including polynomial, rational, logarithmic, exponential and trigonometric functions. Nonlinear systems, vectors and complex numbers are also covered. Use of a graphing calculator or a computer algebra system is required. C-ID MATH 155, CSU, UC (credit limits may apply to UC - see counselor)

Mathematics

MATH-192 Analytic Geometry and Calculus I

5 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 90 hours lecture per term
- Prerequisite: Placement into MATH-192; or MATH-191; or MATH-191SP; or assessment process or equivalent.
- Advisory: College-level reading and writing are expected.

This course presents the elements of analytic geometry, differentiation and integration of algebraic and transcendental functions with applications. Use of a graphing calculator or a computer algebra system is required. C-ID MATH 210, CSU, UC (credit limits may apply to UC - see counselor)

MATH-193 Analytic Geometry and Calculus II

5 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 90 hours lecture per term
- Prerequisite: MATH-192 or equivalent
- Advisory: College-level reading and writing are expected.

This course is a continuation of MATH-192. Techniques and applications of integration in geometry, science and engineering will be explored. Work with algebraic and transcendental functions will be continued. Other topics will include numerical methods in evaluation of the integral, infinite series, solving differential equations, applications of differential equations, polar coordinates, parametric equations and conic sections. C-ID MATH 220, CSU, UC (credit limits may apply to UC - see counselor)

MATH-194 Linear Algebra

3 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 54 hours lecture per term
- Prerequisite: MATH-193 or equivalent
- Advisory: College-level reading and writing are expected.

This course is an introduction to linear algebra, covering vector spaces, matrices, determinants, bases, and linear transformations. Techniques for solving systems of equations using matrices, and applications of linear transformations are covered. C-ID MATH 250, CSU, UC

MATH-195 Discrete Mathematics

4 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 72 hours lecture per term
- MATH-193 (may be taken concurrently) or equivalent
- Prerequisite: MATH-193 or equivalent
- Advisory: College-level reading and writing are expected.

This course provides an introduction to propositional logic, induction, set theory, relations, and functions, counting and combinatorics, introduction to trees, graph theory, algorithms, and algebraic structures. The emphasis is on topics of interest to computer science students. CSU, UC

MATH-289 Introduction to Upper Division Mathematics

4 units SC

- 72 hours lecture per term
- Prerequisite: MATH-193 or equivalent.
- Advisory: College-level reading and writing are expected.

This course is designed for students who intend to transfer to a four-year college or university and study upper-division mathematics. Topics include number theory, set theory, and methods of proof including induction, direct and indirect proof as well as other topics from upper-division mathematics including abstract algebra. CSU, UC

MATH-292 Analytic Geometry and Calculus III

5 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 90 hours lecture per term
- Prerequisite: MATH-193 or equivalent

This course is a continuation of MATH-193. Topics include limits, parametric equations, vector-valued functions, analytic geometry of three dimensions, partial derivatives, multiple integrals, and Green's, Stokes' and the Divergence theorems. C-ID MATH 230, CSU, UC

MATH-294 Differential Equations

5 units LR

- IGETC: 2A; CSU GE: B4; DVC GE: IB, IC
- 90 hours lecture per term
- Prerequisite: MATH-292 or equivalent
- Advisory: MATH-194 or equivalent (may be taken concurrently)
- Note: TI-83 or TI-84 graphing calculator required.

This course presents an introduction to the theory and applications of ordinary differential equations and an introduction to partial differential equations. C-ID MATH 240, CSU, UC

MATH-298 Independent Study

.5-3 units SC

- Variable hours
- Note: Submission of acceptable educational contract to department and Instruction Office is required.

This course is designed for advanced students who wish to conduct additional research, a special project, or learning activities in a specific discipline/subject area and is not intended to replace an existing course. The student and instructor develop a written contract that includes objectives to be achieved, activities and procedures to accomplish the study project, and the means by which the supervising instructor may assess accomplishment. CSU

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MATH-299 Student Instructional Assistant

.5-3 units SC

- *Variable hours*
- *Note: Applications must be approved through the Instruction Office. Students must be supervised by a DVC instructor.*

Students work as instructional assistants, lab assistants and research assistants in this department. The instructional assistants function as group discussion leaders, meet and assist students with problems and projects, or help instructors by setting up laboratory or demonstration apparatus. Students may not assist in course sections in which they are currently enrolled. CSU

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