

MATHEMATICS (804)

804-113 College Technical Mathematics 1A

Credits: 1-3

Topics include: solving linear, quadratic, and rational equations; graphing; formula rearrangement; solving systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the applications of skills to technical problems. Successful completion of College Technical Mathematics 1A and College Technical Mathematics 1B is the equivalent of College Technical Mathematics 1.

Aid Code: 10 - undefined.

Pre-requisites: (834-109) or (GPA High School, 2.6 or ACT Math, 17 or SAT Mathematics, 510 or Next Gen AccuPlacer Arithmetic, 272 or Next Gen AccuPlacer QRAS, 210 or GED-Math, 165)

[Complete Course Listing](#)

804-114 College Technical Mathematics 1B

Credits: 1-2

This course is a continuation of College Technical Mathematics 1A. Topics include: measurement systems; computational geometry; right and oblique triangle trigonometry; and trigonometric functions on the unit circle. Emphasis will be on the application of skills to technical problems. Successful completion of or concurrent enrollment in College Technical Mathematics 1A is required for course enrollment. Successful completion of College Technical Mathematics 1A and College Technical Mathematics 1B is the equivalent of College Technical Mathematics 1.

Aid Code: 10 - undefined.

Pre-requisites: 804-113

[Complete Course Listing](#)

804-134 Mathematical Reasoning

Credits: 1-3

All college students, regardless of their college major, need to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. An activity based approach is used to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts.

Aid Code: 10 - undefined.

Pre-requisites: (((GPA High School, 2.6 or ACT Reading, 16 or EVIDENCE-BASED READ/WRITE SCORE, 480 or Next Gen AccuPlacer Reading, 251 or Test Waived-College Degree or GED-Reading, 165) and (834-109 or (GPA High School, 2.6 or ACT Math, 17 or SAT Mathematics, 510 or Next Gen AccuPlacer Arithmetic, 272 or Next Gen AccuPlacer QRAS, 210 or GED-Math, 165) or)) or ((GPA High School, 1.5 or ACT Math, 15 or SAT Mathematics, 320 or Next Gen AccuPlacer Arithmetic, 243) and 854-805))

[Complete Course Listing](#)

804-118 Intermediate Algebra with Applications

Credits: 1-4

This course offers algebra content with applications. Topics include properties of real numbers, order of operations, algebraic solution for linear equations and inequalities, operations with polynomial and rational expressions, operations with rational exponents and radicals, algebra of inverse, logarithmic and exponential functions.

Aid Code: 10 - undefined.

Pre-requisites: 834-110 or (GPA High School, 2.75 or ACT Math, 20 or SAT Mathematics, 540 or Next Gen AccuPlacer QRAS, 244 or Next Gen AccuPlacer AAF, 237)

[Complete Course Listing](#)

804-189 Introductory Statistics

Credits: 1-3

Students taking Introductory Statistics display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA.

Aid Code: 10 - undefined.

Pre-requisites: (804-118 or 804-211) or ((GPA High School, 2.75 and HS Algebra II Completed, 1) or (ACT Math, 24 or SAT Mathematics, 590 or Next Gen AccuPlacer AAF, 250))

[Complete Course Listing](#)

804-195 College Algebra w Apps

Credits: 1-3

This course covers those skills needed for success in Calculus and many application areas on a baccalaureate level. Topics include the real and complex number systems, polynomials, exponents, radicals, solving equations and inequalities (linear and nonlinear), relations and functions, systems of equations and inequalities (linear and nonlinear), matrices, graphing, conic sections, sequences and series, combinatorics, and the binomial theorem.

Aid Code: 10 - undefined.

[Complete Course Listing](#)

804-196 Trigonometry w Apps

Credits: 1-3

Topics include circular functions, graphing of trigonometry functions, identities, equations, trigonometric functions of angles, inverse functions, solutions of triangles complex numbers, DeMoivre's Theorem, polar coordinates, and vectors.

Aid Code: 10 - undefined.

Pre-requisites: 804-118

[Complete Course Listing](#)

804-197 College Algebra and Trigonometry with Applications

Credits: 5

This course covers those skills needed for success in Calculus and many application areas on a baccalaureate level. Topics include the real and complex number systems, polynomials, exponents, radicals, solving equations and inequalities (linear and nonlinear), relations and functions, systems of equations and inequalities (linear and nonlinear), matrices, graphing, conic sections, sequences and series, combinatorics, and the binomial theorem.

Aid Code: 10 - undefined.

Pre-requisites: (804-118 or 804-211) or ((GPA High School, 2.75 and HS Algebra II Completed, 1) or (ACT Math, 24 or SAT Mathematics, 590 or Next Gen AccuPlacer AAF, 250))

Complete Course Listing

804-198 Calculus 1

Credits: 1-4

Analyze and graph algebraic expressions, especially conic sections. Develop an intuitive understanding of limits, derivatives and integrals. Apply the derivative and the integral to certain physical problems.

Aid Code: 10 - undefined.

Pre-requisites: 804-197

Complete Course Listing

804-211 Quantitative Reasoning

Credits: 3

This course is intended to develop analytic reasoning & the ability to solve quantitative problems. Topics to be covered include construction & interpretation of graphs, functional relationships, descriptive Stat., geometry & spatial visualization, math of finance, exponential growth, & basic probability. Appropriate use of units & dimensions, estimates, mathematical notation & available technology will be emphasized throughout the course.

Aid Code: 20 - undefined.

Pre-requisites: 804-134

Complete Course Listing