|  |
| --- |
| **Please Note:**  Since math is a sequential subject, course prerequisites must be satisfied. In many instances, students are scheduled for math courses too early in the school year to determine whether or not they have fulfilled all necessary prerequisites for a math course. If it is determined at a later date that a student has not satisfied all prerequisites for a math course, the student will be rescheduled from that course to a more appropriate one. |

|  |  |  |
| --- | --- | --- |
| Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif | | |
| **\*Algebra 1 (One-year Algebra Program)** | | |
| **Course #** | 12003101,2 | **EOC** |
| **Grade Level** | 9-12 | |
| **Length** | 1 year | |
| **Prerequisite** | None | |
| **Credit** | 1 | |
| The purpose of this course is to provide the foundation for more advanced mathematics courses and to develop the algebra skills needed to solve real-world and mathematical problems. Topics shall include, but not be limited to, sets, ratios, proportions, radical expressions, variables, the real number system, equations and inequalities, graphs, systems of linear equations and inequalities, integral exponents, polynomials, factoring, irrational numbers, quadratic equations, Venn diagrams, coordinate geometry, problem solving strategies, and literacy strategies. Grades are assigned through completion of course work. Credit is received by obtaining an achievement level of 3, 4, or 5 on the Algebra EOC. | | |

|  |  |
| --- | --- |
| **\*Algebra 1A (Two-year Algebra Program)** | |
| **Course #** | 12003701,2 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | None |
| **Credit** | 1 |
| This course is the first half of the algebraic content for the algebra one program. Topics shall include, but not be limited to, the real number system with emphasis on rational and irrational numbers, sets, variables, algebraic expressions, patterns, relations and functions, solutions to linear equations and inequalities, rates, ratios, proportions, coordinate geometry, graphs, Venn diagrams, real-world problems, problem solving strategies, and literacy strategies. | |

|  |  |  |
| --- | --- | --- |
| **\*Algebra 1B (Two-year Algebra Program)** | | |
| **Course #** | 12003801,2 | **EOC** |
| **Grade Level** | 9-12 | |
| **Length** | 1 year | |
| **Prerequisite** | One full credit in Algebra 1A | |
| **Credit** | 1 | |
| This course is the second half of the algebraic content of a two-year algebra program. Topics shall include, but not be limited to, ratios, proportions, radical expressions, algebraic notation, polynomials, factoring, coordinate geometry, graphs, solutions to linear, quadratic, and systems of equations and inequalities, real-world applications, problem solving strategies, and literacy strategies. Algebra 1A and Algebra 1B completes the algebraic content that will be assessed on the Algebra EOC. | | |

|  |  |
| --- | --- |
| **Credit Recovery Courses** | |
| **Becomes effective with the 2011-2012 entering ninth and subsequent years.** | |
| **Course #** | **Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif**  **1200315 Algebra 1 for Credit Recovery** |
| **ALG 1 CR (EL Credit)** |
|  | **1200385 Algebra 1-B for Credit Recovery** |
| **ALG 1-B CR (EL Credit)** |
| **Becomes effective with the 2012-2013 entering ninth and subsequent years.** | |
| **Course #** | **1206315 Geometry for Credit Recovery** |
| **GEO CR (EL Credit)** |
| **Grade Level** | 9-12 |
| **Credit** | 1 |
| **Special notes:** Credit Recovery courses are credit bearing courses with specific content requirements defined by Next Generation Sunshine State Standards and/or Common Core State Standards. **Students enrolled in a Credit Recovery course must have previously attempted the corresponding course (and/or End-of-Course assessment)** since the course requirements for the Credit Recovery courses are exactly the same as the previously attempted corresponding course. For example, Geometry (1206310) and Geometry for Credit Recovery (1206315) have identical content requirements. It is important to note that Credit Recovery courses are not bound by Section 1003.436(1) (a), Florida Statutes, requiring a minimum of 135 hours of bona fide instruction (120 hours in a school/district implementing block scheduling) in a designed course of study that contains student performance standards, since the students have previously attempted successful completion of the corresponding course. **Additionally, Credit Recovery courses should ONLY be used for credit recovery, grade forgiveness, or remediation for students needing to prepare for an End-of-Course assessment retake.** | |
| **\*Informal Geometry** | |
| **Course #** | 12063001,2 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | None |
| **Credit** | 1 |
| The purpose of this course is to develop the geometric knowledge that can be used to solve a variety of real-world and mathematical problems. Geometric relationships are developed inductively with hands-on activities. The content of this course is less rigorous than Geometry, course number 1206310, and does not include formal deductive proofs. Topics shall include, but not be limited to, logic, Euclidean Geometry, informal proofs, constructions, lines, polygons, quadrilaterals, triangles, circles, polyhedral, spheres, problem solving strategies and literacy strategies. | |
| **NOTE:** *This course is not recognized by the State University System as meeting one of the core courses required for freshman admissions.* | |

|  |  |  |
| --- | --- | --- |
| Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif | | |
| **\*Geometry** | | |
| **Course #** | 12063101,2 | **EOC** |
| **Grade Level** | 9-12 | |
| **Length** | 1 year | |
| **Prerequisite** | Completion of the Algebra 1 course or equivalent (See Note)  One full credit of the Algebra 1 course or completion of an Algebra 1 or equivalent course with a passing grade. | |
| **Credit** | 1 | |
| The purpose of this course is to develop the geometric relationships and deductive strategies that can be used to solve a variety of real world and mathematical problems. Topics shall include, but not be limited to, logic, equivalent propositions, Euclidean Geometry, direct and indirect proofs, constructions, lines, polygons, transformations, quadrilaterals, triangles, circles, polyhedral, spheres, trigonometric ratios, problem solving strategies and literacy strategies. | | |

|  |  |  |
| --- | --- | --- |
| Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif | | |
| **Q \* Geometry Honors** | | |
| **Course #** | 12063201,2 | **EOC** |
| **Grade Level** | 9-12 | |
| **Length** | 1 year | |
| **Prerequisite** | One Algebra 1 credit of level 4 or 5 and a passing grade in Algebra 1 Honors or one full credit in Algebra 1 or Algebra 1 Honors | |
| **Credit** | 1 | |
| The purpose of this course is to develop the geometric relationships and deductive strategies that can be used to solve a variety of real world and mathematical problems. Topics shall include, but not be limited to, truth tables, logic, equivalent propositions, Euclidean Geometry, direct and indirect proofs, vectors, Fibonacci sequence, golden ratio, constructions, lines, polygons, transformations, quadrilaterals, triangles, circles, polyhedral, cross sections, spheres, coordinate geometry, trigonometric ratios, problem solving strategies and literacy strategies. | | |

|  |  |
| --- | --- |
| **\*Liberal Arts Mathematics 2** | |
| **Course #** | 12083001,2 |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | One full credit of Algebra 1 |
| **Credit** | 1 |
| The purpose of this course is to strengthen Algebra 1 skills and to explore informal geometry. State assessment skills will be reinforced. Topics shall include, but not be limited to, laws of exponents, real number properties and operations, graphs, functions, equations and inequalities, quadratic equations, coordinate geometry, polygons, quadrilaterals, triangles, solids, data sets, measures of central tendency, real-world applications, problem solving strategies and literacy strategies. Students may not earn credit in both Liberal Arts Mathematics courses. | |
| Note: *This course is not recognized by the State University System as meeting one of the core courses required for freshman admissions.* | |

|  |  |
| --- | --- |
| Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif | |
| **\*Algebra 2** | |
| **Course #** | 12003301,2 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | One credit in Algebra 1 or equivalent |
| **Credit** | 1 |
| The purpose of this course is to continue the study of the structure of algebra and to apply these skills to fields such as science, social science, statistics, and health-related fields. Topics shall include, but not be limited to, complex numbers, functions, equations and inequalities, rational expressions and equations, absolute value, direct, inverse and joint variation, arithmetic and geometric sequences and series, systems of equations and inequalities, parabolas, quadratic equations, powers, roots, exponents and logarithms, polynomials, problem solving strategies and literacy strategies. | |

|  |  |
| --- | --- |
| Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif | |
| **Q \* Algebra 2 Honors** | |
| **Course #** | 12003401,2 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | One full credit in Algebra 1 Honors or one full credit in Algebra 1 and enrollment in AVID |
| **Credit** | 1 |
| The purpose of this course is to study algebraic topics in-depth with emphasis on theory, proof, and development of formulas and their applications. Topics shall include, but not be limited to, complex numbers, functions, equations and inequalities, absolute value, direct, inverse and joint variation, systems of equations and inequalities, parabolas, quadratic equations, powers, roots, exponents and logarithms, polynomial equations and inequalities, Binomial Theorem, radical expressions, non-linear systems of equations, conic sections, sigma notation, arithmetic and geometric sequences, equations of circles, real-world applications, problem solving strategies and literacy strategies. | |

|  |  |
| --- | --- |
| **Math for College Success** | |
| **Course #** | 1200410 |
| **Grade Level** | 12 |
| **Length** | Semester |
| **Prerequisite** |  |
| **Credit** | 0.5 |
| This course is targeted for grade 12 students, whose test scores on the Postsecondary Educational Readiness Test (P.E.R.T.) are below the established cut scores for mathematics, indicating that they are not yet “college ready” in mathematics. This course incorporates the Common Core Standards for Mathematical Practices as well as the following Common Core Standards for Mathematical Content: Expressions and Equations, The Number System, Ratios and Proportional Relationships, Functions, Algebra, Geometry, Number and Quantity, Statistics and Probability, and the Common Core Standards for High School Modeling. The standards align with the Mathematics Postsecondary Readiness Competencies deemed necessary for entry-level college courses. | |
| **Note:** *This course is required for seniors who do not demonstrate proficiency on the mathematics portion of the Postsecondary Education Readiness Test (PERT) administered during their junior year. Students would be placed in the appropriate course based on their PERT score.* | |

|  |  |
| --- | --- |
| **\*Advanced Algebra with Financial Applications** | |
| **Course #** | 1200500 0,1,2 |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | One full credit in Algebra 2 |
| **Credit** | 1 |
| The purpose of this course is to develop the algebraic relationship and deductive strategies through financial applications that can be used to solve a variety of real world and mathematical problems. Topics shall include, but not limited to, financial planning, credit management, career explorations, equations, inequalities, linear functions, systems of linear equations and inequalities, quadratic, polynomial, exponential and logarithmic functions, interest, personal and commercial debt, mortgages, stocks, bonds, insurance, credit, taxes and measures of central tendency. | |

|  |  |
| --- | --- |
| Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif | |
| **\*Mathematics for College Readiness** | |
| **Course #** | 12007001,2 |
| **Grade Level** | 12 |
| **Length** | 1 year |
| **Prerequisite** | One full credit in Geometry or equivalent |
| **Credit** | 1 |
| This course is targeted for grade 12 students whose test scores on the Postsecondary Educational Readiness Test are below the established cut scores for mathematics, indicating that they are not yet college ready‖ in mathematics. This course incorporates the Common Core Standards for Mathematical Practices as well as the following Common Core Standards for Mathematical Content: an introduction to functions, linear equations and inequalities, solving systems of equations, rational equations and algebraic fractions, radicals and rational exponents, factoring and quadratic equations, complex numbers, and the Common Core Standards for High School Modeling. The benchmarks reflect the Florida College Competencies necessary for entry-level college courses. | |
| **Note:** *This course is required for seniors who do not demonstrate proficiency on the mathematics portion of the Postsecondary Education Readiness Test (PERT) administered during their junior year.* | |

|  |  |
| --- | --- |
| **Q \*Probability** **and Statistics with Applications Honors** | |
| **Course #** | 12103001,2 |
| **Grade Level** | 11-12 |
| **Length** | 1 year |
| **Prerequisite** | One full credit in Algebra 2 or higher |
| **Credit** | 1 |
| The purpose of this course is to explore the concepts of probability and elementary statistics. Topics shall include, but not be limited to, random experiments, probability concepts, counting principles, permutations, combinations, sample spaces, binomial distribution, concepts of descriptive statistics, measures of central tendency, measures of variability, normal distribution, statistical applications including hypotheses testing, real-world applications, problem solving strategies and literacy strategies. | |

|  |  |
| --- | --- |
| **Q\*Advanced Placement Statistics** | |
| **Course #** | 12103201,2 |
| **Grade Level** | 11-12 |
| **Length** | 1 year |
| **Prerequisite** | One full credit in Algebra 2 |
| **Credit** | 1 |
| The purpose of this course is to provide study in exploratory data, planning a study, anticipating patterns in advance, and statistical inference. Topics shall include, but not be limited it, graphical displays, summaries and comparisons of distributions of univariate data, bivariate data and categorical data, overview methods of data collection, planning and conducting surveys and experiments, anticipating patterns using probability simulation, and confirming models through statistical inference. Credit in this course precludes credit in Probability and Statistics with Applications. | |
| **Note:** *Students are required to take the Advanced Placement examination.* | |

|  |  |
| --- | --- |
| **Q\*Mathematical Analysis Honors** (MATH ANALYSIS HON) | |
| **Course #** | 1201300 |
| **Grade Level** | 12 |
| **Length** | 1 year |
| **Prerequisite** | Credit in Trig/Analytic Geometry, Analysis of Functions, or Pre-Calculus |
| **Credit** | 1 |
| The purpose of this course is to emphasize the skills necessary for the study of calculus. Topics shall include, but not be limited to, graphs, transformations, systems of equations and inequalities, polynomial functions, exponential and logarithmic functions, the concept and theory of limits, mathematical induction, symbolic logic, matrix algebra, probability and statistics, real-world applications, problem solving strategies and literacy strategies. | |

|  |  |
| --- | --- |
| **Q\*Analysis of Functions Honors** | |
| **Course #** | 12013101,2 |
| **Grade Level** | 10-12 |
| **Length** | 1 semester |
| **Prerequisite** | One full credit in Algebra 2 |
| **Credit** | 0.5 |
| The purpose of this course is to analyze the similarities between exponential and logarithmic functions, trigonometric and circular functions, and polynomial functions. Topics shall include, but not be limited to, graphs, relations, functions and their inverses, rational and polynomial equations, exponential and logarithmic functions, trigonometric functions, real-world applications, problem solving strategies and literacy strategies. | |
| **Note:** *A student who receives credit for both Trigonometry and Analytic Geometry or Pre-Calculus shall not receive credit for Analysis of Functions.* | |

|  |  |
| --- | --- |
| **Q\*Trigonometry Honors** | |
| **Course #** | 12113000 |
| **Grade Level** | 10-12 |
| **Length** | 1 semester |
| **Prerequisite** | One full credit in Algebra 2 |
| **Credit** | 1/2 |
| The purpose of this course is to study circular and trigonometric functions and their applications. Topics shall include, but not be limited to, vectors, circular functions, trigonometric ratios, equations, functions and identities, polar coordinates, trigonometric form of complex numbers, real-world applications, problem solving strategies and literacy strategies. | |
| **Note:** *Students earning credit in Pre-Calculus cannot earn credit in both Trigonometry and Analytic Geometry. The Trigonometry/Analytic Geometry sequences will be phased out with the next textbook adoption.* | |

|  |  |
| --- | --- |
|  | |
| **Q\*Analytic Geometry Honors** | |
| **Course #** | 1206330 |
| **Grade Level** | 10-12 |
| **Length** | 1 semester |
| **Prerequisite** | Credit in Trigonometry |
| **Credit** | 1/2 |
| The purpose of this course is to stress the relationship between algebra, geometry, and trigonometry and use this relationship in preparation for calculus. Topics shall include, but not be limited to, polynomial functions and equations, graphs, exponential growth and decay, conic sections, direct and indirect proofs, parametric equations, real-world applications, problem solving strategies, and literacy strategies. | |
| **Note:** *Students earning credit in Pre-Calculus cannot earn credit in both Trigonometry and Analytic Geometry. The Trigonometry/Analytic Geometry sequences will be phased out with the next textbook adoption.* | |

|  |  |
| --- | --- |
| Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif | |
| **Q\*Pre-Calculus Honors** | |
| **Course #** | 12023401,2 |
| **Grade Level** | 10-12 |
| **Length** | 1 year |
| **Prerequisite** | One full credit in Algebra 2 |
| **Credit** | 1 |
| The purpose of this course is to emphasize the study of functions and other skills necessary for the study of calculus. Topics shall include, but not be limited to, polynomial, rational, trigonometric/circular functions, arithmetic and geometric series, concept of limits, vectors, conic sections, polar coordinate systems, mathematical induction, parametric equations, complex numbers, real-world applications, problem solving strategies and literacy strategies. | |
| **Note:** *A student who receives credit for both Trigonometry and Analytic Geometry cannot receive credit for Pre-calculus.* | |

|  |  |
| --- | --- |
| **Q\*Calculus Honors** | |
| **Course #** | 12023001,2 |
| **Grade Level** | 11-12 |
| **Length** | 1 year |
| **Prerequisite** | Credit in Trigonometry and Analytic Geometry or Pre-Calculus |
| **Credit** | 1 |
| The purpose of this course is to provide a foundation for the study of advanced mathematics, including elementary functions and techniques of calculus. Topics shall include, but not be limited to, concept of limits, derivatives, anti-derivatives, tangent lines, integration, real-world applications, problem solving strategies and literacy strategies. | |

|  |  |
| --- | --- |
| **Q\*Advanced Placement Calculus AB** | |
| **Course #** | 12023101,2 |
| **Grade Level** | 11-12 |
| **Length** | 1 year |
| **Prerequisite** | Credit in Trigonometry and Analytic Geometry or Pre-Calculus |
| **Credit** | 1 |
| The purpose of this course is to provide study of elementary functions and the general theory and techniques of calculus. The content is specified by the Advanced Placement Program. | |
| ***Note:*** *Students are required to take the Advanced Placement examination. A student may earn credit in both AP Calculus AB and BC.* | |

|  |  |
| --- | --- |
| **Q\*Advanced Placement Calculus BC** | |
| **Course #** | 12023201,2 |
| **Grade Level** | 12 |
| **Length** | 1 year |
| **Prerequisite** | Credit in Trigonometry and Analytic Geometry or Pre-Calculus |
| **Credit** | 1 |
| The purpose of this course is to provide an extensive study of the general theory and techniques of calculus. The content is specified by the Advanced Placement Program. | |
| **Note:***Students are required to take the Advanced Placement examination. A student may earn credit in both AP Calculus AB and BC.* | |

|  |  |
| --- | --- |
| **\*\*\*SAT Preparation (Critical Thinking and Study Skills)** | |
| **Course #** | 1700370X |
| **Grade Level** | 10-12 |
| **Length** | 1 semester |
| **Prerequisite** | None |
| **Credit** | 1/2 Elective Credit |
| The purpose of this course is to provide instruction and practice to prepare for the mathematics section of the Scholastic Aptitude Test (SAT) for college admission. This course is used to prepare students for the SAT reading, writing, and mathematics test in combination. | |
| **Note:** *Credit in this course precludes a student from earning credit in Critical Thinking and Study Skills, as outlined in the research section in this document*. | |

|  |
| --- |
| **SPECIAL COURSES OFFERED ONLY BY IB MAGNET PROGRAMS** |

|  |  |
| --- | --- |
| **Q\*IB Trigonometry** | |
| **Course #** | 12118005 |
| **Grade Level** | 10 |
| **Length** | 1 semester |
| **Prerequisite** | See IB Counselor |
| **Credit** | 1/2 |
| The purpose of this course is to study circular and trigonometric functions and their applications. Topics shall include, but not be limited to, circular functions, trigonometric identities, graphs of trigonometric functions, particular and general solutions of trigonometric equations, and solutions of right and oblique triangles. | |

|  |  |
| --- | --- |
| **Q\*IB Mathematical Studies** | |
| **Course #** | 12098005 |
| **Grade Level** | 12 |
| **Length** | 1 year |
| **Prerequisite** | See IB Counselor |
| **Credit** | 1 |
| The purpose of this course is to provide for the study of certain advanced topics. The content should include, but not be limited to, the following: the structure of mathematics, number theory, logic, relations, linear and exponential functions, probability and statistics, and sequences and series. | |

|  |  |
| --- | --- |
| **Q\*IB Standard Level Mathematics** | |
| **Course #** | 12028005 Calculus - IB  12068005 Analytical Geometry IB |
| **Grade Level** | 11-12 |
| **Length** | 1 year each course |
| **Prerequisite** | See IB Counselor |
| **Credit** | 1 credit each course |
| This program is designed to provide a background of mathematical thought and a reasonable level of technical ability for those not wishing to take Mathematics at Higher Level. It is intended to provide a sound mathematical basis for students planning to pursue studies in business administration, economics, geography, and chemistry. The program requires a substantial amount of background knowledge and contains a wide variety of mathematical topics such as logarithms, sequences and series, linear and quadratic equations and inequalities, graphs, the Binomial Theorem, similarity, arcs and sectors, trigonometry, functions, differentiation, applications of differentiation, integration, applications of integration, vectors, matrices, probability and statistics. In addition to compulsory core topics, one of two optional topics will be covered: (1) analytical geometry, conic sections, and further calculus, or (2) further probability and statistics and discrete and continuous random variables. The AP Calculus AB syllabus is followed in grade 11 so students may take the AP Calculus AB exam with recommendation of the teacher. | |

|  |  |
| --- | --- |
| **Q\*IB Math Analysis** | |
| **Course #** | 1201320 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | See IB Counselor |
| **Credit** | 1 |
| The purpose of this course is to enable students to extend knowledge of functions, acquire modes of mathematical reasoning at an introductory level, and develop skills necessary for the study of calculus. The content should include, but not be limited to, the following: -polynomial and rational functions -exponential and logarithmic functions -sequences and series -mathematical induction -symbolic logic and set theory -matrix algebra -limits and continuity -vectors. | |

|  |  |
| --- | --- |
| **Q\*IB Mathematics Higher Level** | |
| **Course #** | 1209830 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | See IB Counselor |
| **Credit** | 1 |
| The purpose of this course is to extend student knowledge of algebraic, trigonometric, exponential and logarithmic functions, vectors, complex numbers, linear algebra, probability and statistics. Students will study additional topics from one of four areas. It is expected that extensive use will be made of graphing calculators in both the development and the application of these topics. Access to computers is recommended. should include, but not be limited to, the following topics from the Mathematics Higher Level syllabus specified by the International Baccalaureate Organization: -Complex numbers -Matrices -Vectors -Probability -Statistics and one of the following topics: Additional Statistics and Probability--Sets, relations and groups as an introduction to abstract algebra Infinite series and differential equations Discrete mathematics. | |

|  |  |
| --- | --- |
| **Q\* IB Further Math** | |
| **Course** | 1202820 |
| **Grade Level** | 11 - 12 |
| **Length** | 1 year |
| **Prerequisite** | None |
| **Credit** | 1 |
| The purpose of this course is to provide for the study of certain advanced topics. The content should include, but not be limited to, the following: linear algebra; geometry; statistics and probability; sets, relations and groups; calculus; discrete mathematics; and all of the core topics in mathematics higher level. | |

|  |
| --- |
| **SPECIAL COURSES OFFERED ONLY BY**  **CAMBRIDGE UNIVERSITY (AICE) MAGNET PROGRAM** |

|  |  |
| --- | --- |
| **Q\* Pre-AICE Mathematics 2 (counts for Geometry)** | |
| **Course #** | 12098200 |
| **Grade Level** | 9 |
| **Length** | 1 year |
| **Prerequisite** | Algebra 1 Honors |
| **Credit** | 1 |
| Pre-AICE Geometry is a course designed to provide a rigorous and complete study of geometry concepts with the emphasis on methods of proof and the formal language of mathematics. | |

|  |  |
| --- | --- |
| **Q\* Pre-AICE Mathematics 3 (counts for Algebra 2 Honors)** | |
| **Course #** | 1209825 |
| **Grade Level** | 9-10 |
| **Length** | 1 year |
| **Prerequisite** | Mathematics 2 in Pre-AICE |
| **Credit** | 1 |
| This course is an in-depth study of the topics of algebra with emphasis on theory, proof, the development of formulas, and their application. | |

|  |  |
| --- | --- |
| **Q\* AICE Mathematics 1** | |
| **Course #** | 1202352 |
| **Grade Level** | 9-12 |
| **Length** | 1 year |
| **Prerequisite** | Acceptance into PRE-AICE |
| **Credit** | 1 year |
| A and AS Level Mathematics builds on the skills acquired at IGCSE (or equivalent) level. The syllabus allows Centres flexibility to choose from three different routes to AS Level Mathematics - Pure Mathematics only or Pure Mathematics and Mechanics or Pure Mathematics and Probability and Statistics. Centres can choose from three different routes to A Level Mathematics depending on the choice of Mechanics, or Probability and Statistics, or both, in the broad area of 'applications'. | |

|  |  |
| --- | --- |
| **Q\* AICE Mathematics & Probability & Statistics 2 A Level** | |
| **Course #** | 1202364 (AICE MA & PR & ST 2 AL ) |
| **Grade Level** | 11-12 |
| **Length** | 1 year |
| **Prerequisite** | Acceptance into Pre-AICE |
| **Credit** | 1.0 |
| This course is designed to provide the learner with a deeper understanding of mathematical principles and further the development of mathematical skills including the use of applications of mathematics in the context of everyday situations and other subjects they may be studying.  The learner will further develop the ability to analyze problems logically and recognize when and how a situation may be represented mathematically.  The learner will develop a deeper understanding of the use of mathematics as a means of communication and develop a solid foundation for further study. | |

|  |
| --- |
| **COURSES OFFERED ONLY TO STUDENTS WITH SPECIAL NEEDS** |

|  |  |
| --- | --- |
| **Only for Use in Adult High School Co-Enrolled Program** | |
| **\*\*\*Intensive Math** | |
| **Course #** | 12004001,2 |
| **Grade Level** | 9-12 |
| **Length** | 1 semester |
| **Prerequisite** | None |
| **Credit** | Multiple Elective Credit |
| The purpose of this course is to improve students’ skills for FCAT.  This course may not be used to meet the graduation requirement for mathematics and is not a college prep course. | |

|  |  |
| --- | --- |
| **Explanation of Symbols** | |
| **Symbol** | Explanation |
| **\*** | Course meets Mathematics graduation requirement. |
| **\*\*** | Course meets Mathematics graduation requirement if a student performance plan (PCS Form 2-2705) is on file. |
| **\*\*\*** | Elective Credit Only |
| **Description: C:\Users\HOLLOWAYL\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\VFNRH0QY\ScreenHunter_09 Aug  26 12 44.gif** | The virtual symbol indicates this course is available in a Pinellas County School virtual learning environment.  All Pinellas Virtual School (PVS) courses are aligned with the Next Generation Sunshine State Standards (NGSSS) and in the Board approved MS and HS Course Code Directories. |