MATHEMATICS (854)

854-710. Mathematics - Level I. (2 Credits)
This course is designed for adults who need basic mathematical skills in the following areas: basic math operations, including addition, subtraction, multiplication and division, telling time, weights, measures, and basic consumer math.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=710)

854-740. Math II. (2 Credits)
This comprehensive course is designed to provide Level II students with the mathematics skills they need to pursue future educational goals. The course includes a review of whole numbers (including order of operation), decimals, fractions, ratios and proportions, percents, operations with exponents and evaluating algebra expressions, problem solving, measurement, tables and graphs, probability, and solving problems using geometric figures. This course will prepare students for college admissions tests and Level III math courses, including 854-798 Math for GED and 854-783 Beginning Algebra- Semester I.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=740)

854-744. Math III. (2 Credits)
Math III, for students testing in 4 - 5.9 grade equivalent, reviews whole numbers, place value, rounding and estimation and will introduce the learning of fractions and decimals. Math III will assist students in developing their basic skills in preparation for high school completion, continuing education, job entry and on the job training. Students who successfully complete the curriculum will be able to use critical thinking skills to problem solve, perform computations, estimate results, interpret and develop data, work with appropriate technology and apply mathematics to real world situations. These students will also value the use of math in their daily lives.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=744)

854-746. Math IV. (2 Credits)
Math IV reviews Math III fractions and decimals and will introduce and develop skills in percents, ratios/proportions, measurements, data analysis and basic algebra and geometry concepts. Intermediate Math II will assist students in developing their basic skills in preparation for high school completion, continuing education, job entry and on the job training. Students who sucessfully complete the curriculum will be able to use critical thinking skills to problem solve, perform computations, estimate results, interpret and develop data, work with appropriate technology and apply mathematics to real world situations. These students will also value the use of math in their daily lives.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=746)

854-747. Math II. (2 Credits)
Students testing in grade equivalent 2 - 3.9, will gain skills in: addition and subtraction of multiple digit whole numbers; rounding of whole numbers; computation of sums and differences using money, computation of products and quotients, recognition of common measurements, be able to define perimeter and area, and identify problem solving steps. In addition students will solve and apply word problems using the previously identified skills.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=747)

854-752. HSED 5.09 Math-C. (3 Credits)
In this classroom-based course learners will apply math concepts in real-world context including financial literacy consumer applications.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=752)

854-753. HSED 5.09 Math-L. (3 Credits)
In this lab-based course learners will apply math concepts in real-world context including financial literacy consumer applications.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=753)

854-761A. Level 1 Nursing Math Workshop. (0.2 Credits)
This six-hour workshop prepares nursing students for the math portion of their clinical rotations. The workshop covers fractions, decimals, percentages, the metric system, ratio and proportions, dimensional analysis, and dosage calculations.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=761A)

854-761B. Level 2 Nursing Math Workshop. (0.2 Credits)
This six-hour workshop prepares nursing students for the math portion of their clinical rotations. In addition to reviewing level 1 topics, this workshop covers IV calculations, heparin calculations, and more complicated dosage calculations.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=761B)

854-761C. Lev 3 & 4 Nurse Math Workshop. (0.2 Credits)
This six-hour workshop prepares nursing students for the math portion of their clinical rotations. In addition to reviewing topics from level 1, this workshop covers IV calculations, more complicated dosage calculations, titrations, mixing solutions, and critical care calculations.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=761C)

854-761D. Level 1 Nsg Math Booster Wksp. (0.1 Credits)
This 3-hour workshop will cover dosage calculations (including safe dosage by weight), metric and US standard conversions, intake and output, and flow rate calculations (mL/hr and gtt/min). Students should bring Calculate with Confidence (7th edition), a calculator, and a pen or pencil.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=761D)

854-762. Medical Assistant Math Wrkshp. (1 Credit)
This 24 hour workshop will cover dosage calculations (including safe dosage by weight), metric and US standard conversions, intake and output, and flow rate calculations (mL/hr and gtt/min). Students should bring Calculate with Confidence (7th edition), a calculator, and a pen or pencil.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=762)

854-763. Level 4 Nursing Math Workshop. (1 Credit)
This two-night workshop is presented live via Zoom. Level 4 Nursing students will prepare for the math portion of their clinical rotations. Review topics from levels 1-3 and explore titrations, mixing solutions and critical care calculations. If you are unable to attend the workshop, you may enroll in this course to gain access to course materials, including the note-taking packet, completed notes and video recordings of the workshop. You may enroll at any time during the term.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=763)

854-774. Math/Apprenticeships. (3 Credits)
Students can prepare for entrance tests for apprenticeships. The course includes a review of basic math, algebra, spatial relations, and mechanical reasoning. An individualized setting allows students to progress at their own pace.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=774)

854-781. Consumer Math - Semester I. (2 Credits)
This is the first semester of an individualized adult high school credit course. Students learn problem solving skills and gain an inside look into their role as consumers in American society. Throughout the course, students use their arithmetic skills to solve a variety of business problems. Topics include money records; gross and average pay; regular and overtime pay; net pay; fringe benefits, and commission; metric measurement; and buying, leasing, and running a home or motor vehicle. At the end of each unit, students will explore technology in two areas: 1) using the template spreadsheets and/or database diskette; and 2) using the Internet. Students taking this course should have basic math competency in fractions, decimals, and percents prior to course entry. Textbook required.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=781)

854-782. Consumer Math - Semester II. (2 Credits)
This is the second semester of an individualized adult high school credit course. Students learn problem solving skills and gain an inside look into their role as consumers in American society. Throughout the course, students use their arithmetic skills to solve a variety of business problems. Topics include paying taxes; managing insurance needs; saving and borrowing money; investments; business analysis and statistics; business profit and loss; and doing business in a global economy. At the end of each unit, students will explore technology in two areas: 1) using the template spreadsheets and/or database diskette; and 2) using the Internet. Textbook required.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=782)

854-783. Beginning Algebra - Semester 1. (2 Credits)
This course is the first semester of the first year of high school algebra. The course includes the following topics: real numbers, variable expressions, solving equations, applications in solving equations, polynomials, and factoring. Students should have basic math competency in fractions, decimals and percents prior to course entry. Textbook required.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=783)

854-784. Beginning Algebra - Semester 2. (2 Credits)
This course is the second semester of the first year of high school algebra. The following topics are included: algebraic fractions, graphs and linear equations, systems of linear equations, inequalities, radical expressions, and quadratic equations. Textbook required.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=784)

854-785. Interm Algebra - Semester 1. (2 Credits)
This high school credit course is the first semester of the second year of high school algebra. The course emphasizes applications of algebra and strategies for problem solving. Topics covered include real numbers, first degree equations and inequalities, linear functions and inequalities in two variables, systems of equations and inequalities, polynomials, and exponents and radicals. Textbook required.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=785)

854-786. Interm Algebra - Semester 2. (2 Credits)
This high school credit course is the second semester of the second year of high school algebra. The course emphasizes applications of algebra and development of problem solving strategies. Topics covered include rational expressions, quadratic equations, functions and relations, exponential and logarithmic functions, conic sections, and sequence and series. Textbook required.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=786)

854-787. H.S. Geometry-Semester I. (2 Credits)
This course is designed to provide students with the topics considered essential in the first semester of a one-year high school level geometry course. The course features development of the student's ability to reason carefully and to write mathematical proofs within an axiomatic system, emphasizing applications of geometry throughout. Textbook required.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=787)

854-788. H.S. Geometry - Semester II. (2 Credits)
This course is designed to provide students with the topics considered essential in the second semester of a one-year high school level geometry course. The course features development of the student's ability to reason carefully and to write mathematical proofs within an axiomatic system, emphasizing applications of geometry throughout. Textbook required.
Prerequisites: (854-787 with a minimum grade of D-)
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=788)

854-790. Modumath Algebra Part I. (2 Credits)
Part one of this computer/video-based ModuMath algebra course includes solving equations, inequalities, linear equations and graphs, and systems of equations.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=790)

854-791. Modumath Algebra Part II. (2 Credits)
Part two of this computer/video-based ModuMath algebra course includes exponents, factoring, roots and radicals, quadratic equations, rational expressions, Pythagorean theorem and other formulas, and proportion and variation.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=791)

854-792. Test Prep-College Math. (1 Credit)
Students can prepare for mathematics entrance tests and exams in the Student Enrichment Center Math Center.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=792)

854-793. Basic Math. (1 Credit)
The curriculum for this course includes fractions, decimals, percentages, ratio and proportion, scientific notation, signed whole numbers, and simple algebraic equations.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=793)

854-797. MATH for GED. (1 Credit)
MATH is designed for students who are preparing for their GED math test and have exhibited or expressed a fear of math. The course enables students to gain the skills needed to successfully pass the GED math test, with emphasis in the following: ratio and proportion, probability, algebra, geometry, applications of algebra and geometry, and problem solving skills. The course will include discussion on math anxiety, test-taking strategies, study methods, and memorization techniques. Students should have basic math competency in fractions, decimals, and percents prior to course entry.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=797)

854-798. Math V. (2 Credits)
Math V for students testing in 9 - 10.9 grade equivalent enables students to gain the skills needed to successfully pass the GED math test, with emphasis in the following: ratio and proportion, probability, algebra, geometry, applications of algebra and geometry, and problem solving skills. Students should have basic math competency in fractions, decimals, and percents prior to course entry.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=798)

854-799. Academic Support - Math. (3 Credits)
Certified math instructors provide one-on-one assistance with math coursework.
See sections of this course (http://www.wctc.edu/academics/programs-courses/course-search/course-search-listing.php?code=854&num=799)