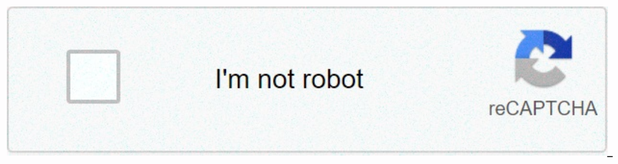

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MATH 75 Math Success Strategies Highly interactive format that provides mathematics teaching and setting up study skills and strategies for success in mathematics courses. Current offer: MATH 90 Basic Mathematics Arithmetic Operations involving whole numbers, integer, positive and negative rational numbers; decimals, percentages; ratio, share; radicals; descriptive statistics; units of measurement; geometry; introduction to algebra. Current offer: MATH 92 Mathematical Literacy for Students In Introduction to numeracy, proportional reasoning, algebraic reasoning and functions. Emphasis on conceptual and procedural tools that support the use of important mathematical concepts in context. Current offerings: MATH 94 Foundations of Elementary Mathematics Arithmetic, Geometry and Beginning Algebra; develops mathematical reasoning, problem solving and facilities with basic mathematical objects and their relationships. Individualized instruction via adaptive learning software. Current Offer: MATH 95 Essentials of Algebra Number Systems; linear equations, differences; exponent notation, radicals; polynomials, operations, factoring, rational expression; coordinate geometry; linear systems; square equations. Current offer: MATH 98 Algebraic Literacy In Arithmetic Numeracy Systems; linear equations, differences; exponent notation, radicals; polynomials, operations, factoring; modeling; coordinate geometry; linear systems; square equations. Current offer: MATH 102 Math literacy for students II MATH 103 Contemporary applications of mathematics Selected topics in applied mathematics and statistics, for example, but not limited to, voice theory, fair division, distribution, graph theory, financial mathematics and statistical inference. Current offerings: MATH 105 Introduction to College Algebra Algebraic techniques with polynomials, rational expressions, equations and inequalities, exponential and logarithmic functions, rational exponetic, systems of linear equations. Current offers: MATH 108 Algebraic Literacy II Continuation of MATH 98 in polynomials, equations and inequalities; exponential, logarithmic and periodic functions; rational expressions and exoclables; and systems of linear equations. Current offering: MATH 111 Introduction to Logic - Critical Reasoning Students learn a wide variety of basic logical methods - techniques used to identify, analyze, model, evaluate and criticize different types of real reasoning. Current MATH 116 College Algebra Function concepts. Polynomic, rational, exponential and logarithmic functions. Systems of equations and inequalities. Matrices and determinants. Sequences and series. Analytical geometry and tapered sections. Induction. Current Offer: MATH 117 Trigonometry Trigonometric Features; graphs, identities, equations, differences; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates. Current offer: MATH 175 Mathematical explorations for elementary teachers In MATH 205 Initial finite mathematics elementary deterministic and probabilistic discrete mathematics and applications to a wide range of disciplines. Topics can include linear programming, Markov chains, optimization, stochastic processes. Current offer: MATH 208 Quantitative models for Business MATH 211 Survey in Calculus and Analytical Geometry A one-semester survey with applications for business administration, economics and non-physical. Topics include coordinate systems, equations of curves, boundaries, differentiation, integration, applications. Current offer: MATH 213 Calculus with Life Sciences Applications Limits, Derivatives, Graphs. Antiderivatives, the clear integrated, and the basic theorem of calculus. Additional techniques and applications relevant to life sciences throughout the course. Current offer: MATH 221 Honors Calculus In Calculus of features of one and more variables; sequences, series, differentiation, integration; introduction to differential equations; vectors and vector functions; Programs. Current offerings: MATH 231 Calculus and analytical geometry In Borders, derivatives and graphs of algebraic, trigonometric, exponential and logarithmic functions; antiderivatives, the specific integrated, and the basic theorem of calculus, with applications. Current offer: MATH 232 Calculus and Analytical Geometry II Continuation of Mathematics 231. Applications of integration, techniques of integration; endless sequences and series; parametric equations, conical sections and polar coordinates. Current offer: MATH 233 Calculus and Analytical Geometry III Continuation of MATH 232. Three-dimensional analytical geometry and vectors; partial derivatives; several integrals; vector calculus, with applications. Current offer: MATH 234 Linear Algebra and Differential Equations MATH 240 Matrices and Applications Vector Ranges, Systems of Linear Equations, Matrices, linear transformations, eigenvalues, eigenvectors; selected topics in applications. Emphasizes basic concepts and specific examples. Current offer: MATH 275 Problem solving / Critical thinking for primary school Majors Course provides a strong basis in the exploration, teaching and communication (oral and written) of mathematical concepts via problem solving experiences and discussion. Current offer: MATH 276 Algebraic Structures for Elementary Education Majors Topics for K-8 Teachers. Basic patterns and rules governing numerical systems, geometric transformations and manipulation of algebraic expressions. Current offer: MATH 277 Geometry for primary school Majors Topics for K-8 teachers. Geometry as measuring tool congruence, similarity, area, volume and coordinates; geometry such as axuity system definitions, presumptions, evidence, counterexposure; rigid movements, symmetry. Current offer: MATH 278 Discreet probability and statistics for primary school Majors Random experiments; histograms; such as spaces; equally likely results for random experiments; permutations; combinations; binomial, geometric, hypergeometric distributions; expectation; conditional probabilities; maximum probability estimation and inference. Current offer: MATH 290 Courses in Mathematics: MATH 297 Study Abroad: Designed to enroll students in UWM sponsored programs before coursework, content and credits are determined and/or in specially crafted program course work. Current Offer: MATH 299 Ad Hoc: Courses created expressly for offers during a specific registration period. Requires only dept & assoc dean approval. In exceptional cases, can be offered in one add'l sem. Current offer: MATH 305 Introduction to mathematical and computational modelling Construction and analysis of discrete and continuous mathematical models in applied, natural and social sciences. Elements of programming, simulations, case studies from scientific literature. Current offer: MATH 305G Introduction to mathematical and computational modelling Construction and analysis of discrete and continuous mathematical models in applied, natural and social sciences. Elements of programming, simulations, case studies from scientific literature. Current offer: MATH 313 Linear programming and optimization Primal and two formulations of linear programming problems; simplex and related solution methods; algorithms for transportation; Optimization. Current Offer: Linear programming and optimization Primal and two formulations of linear programming problems; simplex and related solution methods; algorithms for transportation; Optimization. Current offer: MATH 315 Mathematical programming and optimization Introduction to operational research. Network analysis; integer programming; game theory; non-linear programming; dynamic programming. Current offer: MATH 315G Mathematical programming and optimization Introduction to operational research. Network analysis; integer programming; game theory; non-linear programming; dynamic programming. Current offer: MATH 318 Topics in Discrete Mathematics Numeracy Numeracy Topics related to cryptography; discreet structures, including graphs, partial orders, Latin squares and block design; advanced counting techniques. Current offer: MATH 320 Introduction to differential equations Elementary types and systems of differential equations, serial solutions, numerical methods, Laplace transforms, selected applications. Current offer: MATH 320G Introduction to differential equations Elementary types and systems of differential equations, serial solutions, numerical methods, Laplace transforms, selected applications. Current Offer: MATH 321 Vector Analysis Topics selected from vectorgebra; scale and vector fields; line, surface and volume integrals; theorems of Green, Gauss and Stokes; vector differential calculus. Current Offer: MATH 321G Vector Analysis Topics selected from vectorgebra; scale and vector fields; line, surface and volume integrals; theorems of Green, Gauss and Stokes; vector differential calculus. Current offer: MATH 322 Introduction to partial differential equations Partial differential equations of mathematical physics, limit value problems in the heat flow, vibrations, potentials, etc. Solved by the Fourier series; Bessel features and Legendre polynomials. Current offer: MATH 322G Introduction to partial differential equations Partial differential equations of mathematical physics, limit value problems in the heat flow, vibrations, potentials, etc. Solved by the Fourier series; Bessel features and Legendre polynomials. Current offer: MATH 341 Seminar: Introduction to the language of mathematics and practice of mathematical language and method of conjecture, evidence and counterexample, with an emphasis on evidence. Topics: logic, sets, functions, and others. Current Offer: MATH 345 from a historical perspective: Topics from the development of mathematics, such as known problems, mathematicians, calculation of devices; chronological contours. Significant reading and writing tasks. Current offer: MATH 371 Introduction to stochastic models in finance elementary modeling of financial instruments for students in mathematics, economics, business, etc. Statistical and stochastic tools that lead to the Black-Scholes model. Assembly of parameters for real data. Current offer: MATH 371G Introduction to stochastic models in finance elementary modeling of financial instruments for students in mathematics, economics, business, etc. Statistical and stochastic tools that lead to the Black-Scholes model. Assembly of parameters for real data. Current offering: MATH 381 Honors Seminary: Important topics for illustrating to non-mathematicians the characteristic characteristics of mathematical thought. Only H.S. algebra and geometry assumed. Current offer: MATH 405 Mathematical models and applications Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Courses may vary with teachers. Current offer: MATH 405G Mathematical models and applications Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Courses may vary with teachers. Current Offer: MATH 413 Introduction to Numerical Analysis Root Finding and Resolving Non-Linear Systems; direct solution of linear systems; interpolation and approach of functions; least squares; fast Fourier transform; Quad. Current Offer: MATH 413G Introduction to Numerical Analysis Root Findings and Solution of Nonlinear Systems; direct solution of linear systems; interpolation and approach of functions; least squares; fast Fourier transform; Quad. Current Offer: MATH 415 Introduction to Scientific Computing Nonlinear Systems; iterative solution of linear systems; initial value problems in common differential equations; limit value problems in common and partial differential equations. Current Offer: MATH 415G Introduction to Scientific Computing Nonlinear Systems; iterative solution of linear systems; initial value problems in common differential equations; limit value problems in common and partial differential equations. Current Offer: MATH 417 Computational Algebra MATH 417G Calculation Line Algebra Complex analysis Complex numbers; definition and characteristics of analytical functions of a complex variable; compliance mapping; calculus of residues; applications for mathematics and physics. See also Mathematics 713. Current Offer: MATH 423G Complex Analysis Complex numbers; definition and characteristics of analytical functions of a complex variable; compliance mapping; calculus of residues; applications for mathematics and physics. See also Mathematics 713. Current offer: MATH 431 Modern Algebra with applications MATH 431G Modern Algebra with applications MATH 451 Aksiomatic Geometry MATH 451G axiomatic geometry MATH 453 Transformations in geometry MATH 453G Transformations in Geometry MATH 489 Internship in Mathematics, Upper Division Application of Advanced Principles of Mathematics in a Business, Organizational, Educational, State or Other Appropriate Other Setting. Current offer: MATH 490 Courses in Mathematics: Specific topics and any additional prerequisites announced in schedule for classes each time course is offered. Can be recaptured w/ chg in the subject to 9 cr max. Current offer: MATH 490G Courses in Mathematics: Specific topics and any additional prerequisites announced in schedule for classes each time the course is offered. Can be recaptured w / chg in the subject of 9 cr max. Current offer: MATH 497 Study Abroad: Designed to enroll students in UWM sponsored programs before coursework, content and credits are determined and/or in specially prepared program course work. Current offer: MATH 497G Study Abroad: Designed to enroll students in UWM sponsored programs before coursework, content and credits are determined and/or in specially crafted program course work. Current Offer: MATH 499 Ad Hoc: Courses created expressly for offers during a specific registration period. Requires only dept & assoc dean approval. In exceptional cases, can be offered in one add'l sem. Current offer: MATH 511 Symbolic logic First-order predicate calculus; formal properties of theoretical systems; the main results of modern mathematical logic; advanced topics such as completeness and computing. Current Offer: MATH 511G Symbolic Logic First Order Predicate Calculus; formal properties of theoretical systems; the main results of modern mathematical logic; advanced topics such as completeness and computing. Current offer: MATH 521 Advanced Calculus I Fundamental notions of sets and features; limits, continuity; Riemann integrated, incorrectly integrated; series; uniform convergence; power series; incorrect integrals with a parameter. Current Offer: MATH 521G Advanced Calculus I Basic notions of sets and features; limits, continuity; Riemann integrated, incorrectly integrated; infinite series; uniform convergence; power series; incorrect integrals with a parameter. Current Offer: MATH 522 Advanced Calculus II Linear Features; differentiation of functions of several variables (implicit functions, Jacobians); change of variable in several integrals; integrals over curves, surfaces; Green, Gauss, Stokes theorems. Current Offer: MATH 522G Advanced Calculus II Linear Features; differentiation of functions of several variables (implicit functions, Jacobians); change of variable in several integrals; integrals over curves, surfaces; Green, Gauss, Stokes theorems. Current Offer: MATH 535 Linear Algebra Vector Spaces; systems of linear equations; linear transformations and matrices; bilinear, square and hermit forms; eigentheory; canonical forms; selected topics. Emphasizes theory and evidence. Current Offer: MATH 535G Linear Algebra Vector Space; systems of linear equations; linear transformations and matrices; bilinear, square and hermit forms; eigentheory; canonical forms; selected topics. Emphasizes theory and evidence. Current offer: MATH 537 Number Theory Number theoretical features; distribution of primes; Diophantine approach; partitions; additive number theory; square reciprocity. Current offer: MATH 537G Number theory Number theoretical features; distribution of primes; Diophantine approach; partitions; additive number theory; square reciprocity. Current offer: MATH 551 Elementary topology General theory of punctual sets in Euclidian space, emphasizing the topology of two-dimensional and three-dimensional spaces; elementary notions of metric spaces; Programs. Current offer: MATH 551G Elementary topology General theory of punctual sets in Euclidian space, emphasizing the topology of two-dimensional and three-dimensional spaces; elementary notions of metric spaces; Programs. Current offer: MATH 571 Introduction to probability models Probability assessment, Markov chains in discreet and continuous time. Random trips, branching processes, birth and death processes. Queuing theory. Applications for physics, engineering, mathematics. Current Offer: MATH 571G Introduction to Probability Models markerov chains in discreet and continuous time. Random trips, branching processes, birth and death processes. Queuing theory. Applications for physics, engineering, mathematics. Current offer: MATH 575 High School Mathematics from an advanced point of view number systems; algebra of polynomials; theory of equations; features; modeling; geometric measurement; geometric transformations; relationships between advanced mathematics and high school subjects. Current offer: MATH 575G High School Mathematics from an advanced point of view number systems; algebra of polynomials; theory of equations; features; modeling; geometric measurement; geometric transformations; relationships between advanced mathematics and high school subjects. Current offer: MATH 581 Introduction to the theory of chaotic dynamic systems Iterated mappings, a parameter families, attract and reject periodic paths, topological transitivity, Sarkovski theorem, chaos, bifurcation theory, period doubling route to chaos, horseshoe maps, attractors. Current offer: MATH 581G Introduction to the theory of chaotic dynamic systems Iterated mappings, a parameter families, attract and reject periodic paths, topological transitivity, Sarkovski theorem, chaos, bifurcation theory, period doubling route to chaos, horseshoe maps, attractors. Current offer: MATH 591 Undergraduate Seminar: MATH 599 Capstone Experience MATH 601 Advanced Engineering Mathematics In Sequences and series, elementary complex analysis; Fourier series; linear and nonlinear common differential equations; matrix theory, elementary functional analysis; elementary solution of partial differential equations. Current offer: MATH 601G Advanced Engineering Mathematics In Sequences and Series, Elementary Complex Analysis; Fourier series; linear and nonlinear common differential equations; matrix theory, elementary functional analysis; elementary solution of partial differential equations. Current Offer: MATH 602 Advanced Engineering Mathematics II Continuation of Math 601. Partial differential equations, Fourier and Laplace transform, convolutions, special features, mathematical modeling. Current Offer: MATH 602G Advanced Engineering Mathematics II Continuation of Mathematics 601. Partial differential equations, Fourier and Laplace transform, convolutions, special features, mathematical modeling. Current offer: MATH 615 Numerical solution of partial differential equations Final difference solution of elliptical limit problems and evolutionary problems; solution of hyperbolic conservation laws; limited volume methods; limited element methods. Current offer: MATH 615G numerical solution of partial differential equations Final difference solution of elliptical limit value problems and evolutionary problems; solution of hyperbolic conservation laws; limited volume methods; limited element methods. Current offer: MATH 617 Optimization Unconstrained and limited optimization: linear, non-linear and dynamic programming; barrier, punishment and lagrangian methods; Karush-Kuhn-Tucker theory, square, and sequential square programming; evolutionary algorithms. Current Offer: MATH 617G Optimization Unconstrained and limited optimization: linear, non-linear and dynamic programming; barrier, punishment and lagrangian methods; Karush-Kuhn-Tucker theory, square, and sequential square programming; evolutionary algorithms. Current offer: MATH 621 Introduction to analysis In MATH 621G Introduction to analysis In MATH 622 Introduction to Analysis II continues Mathematics 621. Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit functional meto terms; differential forms; Stokes' theorem. Current offer: MATH 622G Introduction to Analysis II continues Mathematics 621. Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit functional meto terms; differential forms; Stokes' theorem. Current offerings: MATH 631 Modern Algebra I Group theory, including normal subgroups, quotients, permutation groups, Sylows theorems, Abelian groups; field theory; linear algebra over general fields. Current offerings: MATH 631G Modern Algebra I Group theory, including normal subgroups, quotients, permutation groups, Sylows theorems, Abelian groups; field theory; linear algebra over general fields. Current offer: MATH 632 Modern Algebra II Continuation of Math 631. Ringer, including ideals, quotients, euclinic rings, polynomial rings, unique factorization; modules, including vector areas, linear transformations, canonical forms; bilinear forms. Current offer: MATH 632G Modern Algebra II Continuation of Math 631. Ringer, including ideals, quotients, euclinic rings, polynomial rings, unique factorization; modules, including vector areas, linear transformations, canonical forms; bilinear forms. Current Offer: MATH 690 Topics in MATH 690G Mathematics Courses: MATH 701 Industrial Mathematics In MATH 702 Industrial Mathematics II Optimal Control Theory, Digital Signal Processing, Imaging, Linear Programming, Nonlinear Optimization, Artificial Neural Networks. The use of mathematical software underlined throughout. Current offer: MATH 703 Limit value problems Analytical methods of PDE in mathematical physics, emphasis ation of greens functions. Theory of distributions, basic solutions, generalized eigenfunction extensions, generalized fourier and laplace is transformed. Current offer: MATH 709 Differential geometry The theory of curves, surfaces and manifolds in modern terminology. Global results on closed surfaces, geodesics, differential shapes and tensor calculus.introduction to riemanniam geometry. Current offer: MATH 711 Theory of features of a real variable In equivalence relationships; cardinal and ordinal figures; topology of real line; cantor and burel set; lebesgue goals on real line; and measurable features; lebesgue integrated. Current offer: MATH 712 Theory of Functions of a Real Variable II Lebesgue integration; modes of convergence; lp space; vitali covers and lebesgue density theorems; dini derivatives; differentiation; basic theorem of lebesgue integrated calculus; Fubini's theorem. Current offer: MATH 713 Theory of Functions of a Complex Variable In Complex Numbers; linear transformations; elementary features; compliance mapping; complex integration; endless sequences; dirichlet problem; multivalued functions. Current offer: MATH 715 Numerical Analysis Interpolation and Approach; differentiation and square quadration; numerical solution of common differential equations; solution of linear and nonlinear algebraic equations. Current offer: MATH 716 Ordinary differential equations Existence and uniqueness theorms for systems of ode; qualitative properties of solutions, including stability and asymptotic behavior; general theory of linear systems; sturm-liouville problems. Current Offer: MATH 719 Partial Differential Equations First and Second Order Equations; properties, cauchy problem; classic solutions of linear elliptical, parabolic and hyperbolic equations. Current offer: MATH 721 Abstract Measure and Integration General theory of action and integration; differentiation of set functions; relationship to stochastic variables; nuclear measures; and integrated applications to probability theory. Current offer: MATH 726 Introduction to functional analysis Basic notions of functional analysis in hilbert space will be introduced. The concepts will be illustrated by applications for elementary differential and integral equation problems. Current offer: MATH 731 Abstract Algebra I Basic courses that are prerequisite for all other 700-799 level courses in algebra; groups, rings, fields, galois theory, modules and categories. Current offer: MATH 735 Theory of groups Topics selected from permutation groups; representations of groups and algebras; group of algebras; group characters; extension problems; simple groups; loose and zero-potent groups. Current offer: MATH 736 Theory of rings and modules In Noetherian and Artine rings and modules; primitive, prime and simple rings and ideals; radicals; localization; morita theory; construction and study of special classes of rings. Current offerings: MATH 751 Initial topology In Basic characteristics and examples of topological spaces and continuous functions, including compactness, connectedness, metrizability, completeness, product and quotient areas, homeomorphisms, embedding, extension, and euclidei areas. Current offer: MATH 753 Introduction to algebraic topology In Homology theory; complexes and simplicial homologation theory; general homology theories; cohomology rings; applications for manifolds, fixed point theorems, etc. Current offer: MATH 767 Statistical methods for engineers and scientists Elementary baysian decision theory; previous posterior and predictive distributions; posterior and pre-posterior analysis of two action decision-making problems; concept of probability functions of binomial, poisson, exponential and normal distributions; simple and multiple regression analysis; introduction to autoregressive models. Current offer: MATH 768 Applied stochastic processes Concepts in line theory; exponential channels; applications of markov chains to queue problems; disciplines with priorities. Current offer: MATH 771 Theory of probability-objective theoretical foundations; border-law theorems; weak and strong laws of large numbers; central border problem; contingent expectations, martingales; stochastic processes. Current offerings: MATH 781 Iterated Maps such as Dynamical Systems Periodic, recurring and non-wandering points, kneading theory, unstable manifolds, unimodal maps, turbulent and chaotic maps, symbolic dynamics, structural stability, topological conjugacy, topological dynamics. Current offer: MATH 792 Industrial Internship Students earn credits for earning in an industrial internship that involves work of advanced mathematical nature. They must prepare a report based on the internship. Current offer: MATH 799 Seminary in Mathematics: MATH 801 Topics in Applied Mathematics: MATH 807 Group Theory and its applications to physics Representations of discrete and continuous groups, including rotation groups, unified groups and crystal point and space groups. Symmetries of elementary particles. Molecular obituaries, energy bands. Current offer: MATH 809 Topics in differential geometry: Subjects can be selected from Riemannian geometry, minimal surfaces and surfaces of prescribed average curvature, geometric partial differential equations or related geometry ranges. Specific topics and any additional prerequisites will be announced in the schedule each time the course is offered current offer: MATH 813 Numerical solution of ordinary differential equations MATH 814 Numercal Solution of Partial Differential Equations MATH 815 Topics in numerical analysis: MATH 816 Advanced ordinary differential equations MATH 817 Advanced ordinary differential equations II MATH 821 Advanced topics in real analysis: MATH 825 Functional analysis Basic theorems of b-spaces and f-spaces, including the closed graph; Hahn-Banach and Banach-Steinhaus theorems; Banach algebras; generalized functions; spectral theory. Current Offer: MATH 841 Advanced Topics in Algebra: MATH 843 Homological Algebra In Modules; charts; categories; functors; complexes; coconology; extensions; resolutions; injecting and projective systems; graduated modules; homological dimension; spectral sequences; derived functors. Current Offer: MATH 851 Advanced Topics in Topology: MATH 873 Advanced Topics in Probability: MATH 881 Topics in Nonlinear Dynamics: Dynamics:

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