Mathematics

MAT210 Finite Mathematics   4 Credit Hours

Students gain an introduction to solving problems by using geometric approaches, algebraic approaches, and technology. Topics include linear functions, systems of linear equations, matrices, linear programming, and using mathematics in finance.

MAT211 College Algebra   4 Credit Hours

Introduces students to solving problems by using geometric and algebraic approaches and appropriate technology. Topics include the Cartesian coordinate system, linear equations, absolute value, rational and exponential functions, systems of linear equations, and linear inequalities.

Prerequisite: CSK099 or placement

MAT212 Mathematics with Business Applications   4 Credit Hours

Introduces students to the personal use of mathematics and the applications for various business disciplines including accounting, fashion marketing and management, financial services, and marketing. Explores the business applications of linear functions, quadratics functions, and systems of linear equations. Emphasis will be placed on the use of Excel to solve real-world business problems.

Prerequisite: CSK099 or placement

MAT215 Statistics I   4 Credit Hours

An introduction to statistical methods and procedures. Students become acquainted with the collection, analysis, and presentation of quantitative data. Topics include basic concepts of probability, frequency distributions, binomial distributions, sampling theory, hypothesis testing, and regression and correlation.

Prerequisite: MAT211

MAT216 Statistics II   4 Credit Hours

A continuation of the Statistics I course. Topics include sample hypothesis tests, sample inferences, F-tests, chi-square tests, linear correlation, and linear regression.

Prerequisite: MAT215

MAT270 Special Topics in Mathematics   4 Credit Hours

Involves reading and discussions organized around selected topics in mathematics. Topics will vary each quarter.

MAT301 Discrete Mathematics   4 Credit Hours

Explores mathematical concepts most directly related to information technology management and/or computer science related fields. Topics covered include logic, relations, functions, basic set theory, graph theory, combinatorics, recursive functions, and Boolean algebra and its applications.

Prerequisite: MAT211

MAT470 Special Topics in Mathematics   4 Credit Hours

Special topics in mathematical understanding are studied in depth at an advanced level.

Prerequisite: any 200-level course in Mathematics

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