MATH - STATISTICS POST BACCALAUREATE

MATH 1000 College Level Math Prep (1 Credit Hours)
This course is designed for health science majors needing to review essential mathematical concepts and skills. Topics include basic arithmetic operations on real numbers, systems of measurements, use of formulas, conversions, dimensional analysis, percents, decimals, fractions, ratio and proportion, linear and exponential equations and graphing, geometry, and basic trigonometry. Course Prerequisite: N/A
Academic Level: Undergraduate

MATH 1010 College Algebra (3 Credit Hours)
This course was designed to provide students with the quantitative skills necessary to model and analyze real-world problems. With just a handful of different algebraic tools and modeling techniques, students will be able to interpret, visualize, and describe a vast array of mathematical relationships that arise in ecology, economics, medicine, and many other fields. This course will emphasize using algebraic principles to strengthen problem-solving skills and enhance communication of quantitative concepts. Topics include polynomial functions, rational functions, absolute value functions, piecewise functions, logarithmic and exponential functions, solving systems of equations and inequalities, and elementary mathematical modeling and applications.
Additional fees may exist.
Academic Level: Undergraduate

MATH 1011 Precalculus (3 Credit Hours)
Precalculus was intentionally designed to prepare students for subsequent college level Calculus courses. This course will review a variety of the prerequisite mathematical concepts necessary for Calculus. Topics include rational functions, trigonometric functions, polar coordinates, sequences and series, probability, and a brief introduction to continuity. Each of these topics will be applied to real-world situations that can be modeled mathematically. In this course, students will practice communicating the realistic applications of each of these topics. It is recommended that students have completed College Algebra, Algebra 2, or Intermediate Algebra within the last five years before enrolling in this course.
Equivalent to MAT 180. Additional fees may exist.
Academic Level: Undergraduate

MATH 1020 Calculus I (4 Credit Hours)
This course focuses on single variable calculus through graphical, analytical, and numerical techniques. Differentiation and its applications are thoroughly discussed. Basic integration techniques are introduced. Mathematical manipulation and computational competence is equally weighted with the ability to analyze, evaluate, synthesize and form accurate decisions using relevant information in applied settings.
Equivalent to MAT 190.
Academic Level: Undergraduate

MATH 1021 Calculus II (4 Credit Hours)
This course continues the study of calculus. More techniques of integration will be investigated in this course. The concepts of limits, differentiation, and integration will be applied to problems in differential equations, sequences, series, and Taylor series. Parametric equations, polar coordinates, and vectors will also be introduced. (Calculus 1 is a prerequisite for this course).
Academic Level: Undergraduate

MATH 1030 Intro to Statistics (3 Credit Hours)
This course introduces students to both descriptive and inferential statistics. Emphasis is placed on the practical use of statistics in the collecting, organizing, analyzing, and interpreting of data. Students will learn standard topics such as sampling, bias, organization of data, measures of central tendency and dispersion, correlation and regression, probability, normal and standard normal distributions, confidence intervals, and hypothesis testing.
Additional fees may exist.
Academic Level: Undergraduate

MATH 1050 Applied Statistics (4 Credit Hours)
The four-credit-hour, one-semester online course is designed to offer the same major subject and content areas as a traditional statistics course, but differs in that an emphasis is placed on application. Students can choose data sets from several disciplines, including health professions, education, and business, to make the course relevant to their specific needs and interests.
Academic Level: Undergraduate