

Department: Mathematics

Course No: MATH 118Q

Title: A Survey of Calculus with Applications I

Credits: 4

Contact: David Gross

WQ: Q

Catalog Copy: MATH 118Q. A Survey of Calculus with Applications. Either semester. Three credits. Recommended preparation: MATH 101 or the equivalent. Not open for credit to students who have passed MATH 106,113,115,120. Derivatives and integrals of elementary functions including the exponential and logarithm functions; applications include optimization, marginal functions, exponential growth and decay, compound interest.

Course Information:

a: the course goals remain the same: to introduce students to some of the ideas of calculus and their applications. This course is different from Math 106 in that it does not concentrate solely on business applications and does include discussions and applications involving trigonometric functions.

b: The Derivatives and integrals of elementary functions including the exponential and logarithm functions; applications include optimization, marginal functions, exponential growth and decay, compound interest. Applications are dependent on the instructor.

Q Criteria : The course include mathematics at or above the basic algebra level as an integral part of the course which is used throughout the course. The course included the use of basic algebraic concepts such as: formulas and functions, linear and quadratic equations and their graphs, systems of equations, polynomials, fractional expressions, exponents, powers and roots, problem solving and word problems. The course require the student to understand and carry out actual mathematical manipulations and use them in order to draw conclusions.

Role of Grad Students: This course is currently being offered only at the Avery Point campus and is taught by an adjunct with a long standing record of teaching at UConn.