Course Description:	Integral calculus with application in engineering, business, economics, and the management, life, and social sciences.
Credit Hours:	3
Course Objectives:	 Business, life science, and engineering technology students will learn applied concepts of integral calculus Students will become fluent in concepts of exponential and logarithmic derivative functions Students will be able to conceptualize and explain anti differentiation Students will practice and apply integration by parts and substitution Students will apply integral mathematics to real world applications.
Course Content:	The Exponential and Logarithmic Functions The Exponential Function The Logarithmic Function The Derivatives of the Exponential and Logarithmic Functions Applications of the Exponential Function Basics of Trigonometry Right Triangle Trigonometry The Unit Circle Pythagorean and Symmetric Identities The Sine, Cosine, and Tangent functions and their Inverses The Derivatives of the Sine, Cosine, and Tangent Functions Functions of Two or More Variables Partial Derivatives and Maxima and Minima Applications Anti-differentiation Antiderivatives Integration by Substitution Integration by Substitution Integration by Substitution Integration by Parts Tables of Integral A Brief Table of Integral The Definite Integral The Area Under a Curve Properties of the Definite Integral Some Applications of Integration The Riemann Integrat Application of the Riemann Integral to Business Improper Integrat Number Integration Techniques Other topics as time permits

MA 122 Calculus for Business and Life Sciences II

Evaluation: There are at least three 50 minute examination during the semester plus a final exam.

ACCOMMODATION STATEMENT:

In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973, the University offers reasonable accommodations to students with eligible documented learning, physical and/or

psychological disabilities. Under Title II of the Americans with Disabilities Act (ADA) of 1990 and Section 504 of the