

## MA 121 Calculus for Business and Life Sciences I

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**Concepts of differential calculus**

Students will become fluent in concepts of limits and continuity

Students will be able to conceptualize and explain average and instantaneous rates of change

Students will understand derivative mechanics

Students will apply derivative functions to real world applications.

### Function

Graphs of functions and their graphs

Straight Line and Linear Functions

Graphs of the Straight Line Quadratic Functions

Concepts of Limits and Continuity Rates of Change

### Derivative

Definition of the Derivative Basic

Rules of Differentiation

Techniques of Differentiation:

Product, Quotients, and Rational Powers

Applications in Business and Economics

Chain Rule

Related Rates Problems

Implicit Differentiation :

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