



MTH 132: Calculus with Applications

This course is a continuation of MTH 131. Topics include limits, continuity, differential calculus, applications of differential calculus, integral calculus, and applications of integral calculus. Prerequisite: a grade of C- of higher in MTH 131. Three lecture hours per week.

Course Student Learning Outcomes

- 1. Demonstrate knowledge of linear, polynomial, rational, exponential, and logarithmic functions.
- 2. Solve problems involving limits and continuity of functions.
- 3. Demonstrate knowledge of the derivative of a function using the definition of the derivative and the formulas for products, quotients, and chain rule along with the applications of the derivative, mostly curve sketching and optimization.
- 4. Solve indefinite and definite integrals using simple integral formulas and the substitution method along with applications of the integral.

Credits: 3

Program: Mathematics

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