The General Education Program prepares students for informed citizenship, leading to responsible participation in local, national, and global communities.

MTH 201 Calculus I

Foundations - Mathematical Sciences

Knowledge Student Learning Outcomes

1. Explain principles and questions that define computer science, logic, mathematics, or statistics.
2. Apply techniques for problem solving including recognition of key elements, the choice of suitable methods for solving a problem, and the appropriate application of these methods.

Skills Student Learning Outcomes

1. Quantitative Literacy: Work effectively with numerical data.
    - Calculations are correct, solve the problem, and are presented clearly and concisely.
    - Skillfully converts data into an insightful mathematical portrayal in a way that contributes to a deeper understanding.
    - Uses the quantitative analysis of data as the basis for deep and thoughtful judgments, drawing insightful, carefully qualified conclusions.
    - Uses quantitative information in connection with the purpose of the work, presents it in an effective format, and explains it with consistently high quality.
2. Problem Solving: Design and evaluate an approach to answer an open-ended question or achieve a desired goal.
    - Constructs a clear and insightful problem statement that includes all relevant contextual factors.
    - Identifies multiple approaches for solving the problem that applies to a specific context.
    - Proposes one or more solutions/hypotheses that are sensitive to contextual factors and the ethical, logical, and cultural dimensions of the problem.
    - Evaluates solution(s) thoroughly and insightfully and does all of the following: considers the history of the problem, reviews logic/reasoning, examines feasibility of the solution, and weighs impacts of the solution.