

Goals, Learning Objectives and Outcomes

MATH 211 - 01

1 Goals of the Course

- To introduce the basic definitions, concepts, rules, vocabulary, and mathematical notation of calculus.
- To provide the manipulative skills required for solving problems in calculus.
- To provide the knowledge and appreciation of calculus as a tool in solving applied physical problems.
- To provide a background in mathematics that can be used for the study of science and engineering.

2 Learning Objectives

- Explain the basic vocabulary, concepts, rules, definitions and mathematical notation of differential equations.
- Demonstrate the standard techniques for solving differential equations.
- Use Laplace Transforms to solve differential equations.
- Solve applied physical problems using differential equations.

3 General Education Learning Outcomes

- Comprehend and evaluate mathematical and statistical information.
- Perform college level mathematical operations on quantitative data.