MATH 210C : Differential Equations

Topics include methods of solving and applications of ordinary first- and second-order differential equations, Laplace transformations, series solutions, basics of linear algebra, and systems of differential equations. A graphing calculator is required.

Credits 4 Lab/Practicum/Clinical Hours 0 Lecture Hours 4 Prerequisite Courses MATH 206C Learning Outcomes

Learning Outcomes

- · State, interpret, and apply the definitions, theorems, and properties involving differential equations
- · Determine solutions to first-, second-, and higher order differential equations
- Determine solutions to systems of first-order linear differential equations.
- · Determine solutions to differential equations using Laplace and Inverse Laplace Transforms
- · Determine power series solutions to differential equations about ordinary points
- · Construct and solve mathematical models using differential equations