Course catalog description


Credit hours
3 hours

Prerequisites
A grade of C or higher in MTH331 and MTH335

Course objectives

- To introduce students to fundamental partial differential equations, including the transport equation, the heat equation, the Laplace / Poisson equation (potential equation), and the wave equation.
- To give students an introduction to the classical techniques of solving partial differential equations, including using separation of variables, Fourier series, and Laplace transforms.
- To introduce students to initial value problems and boundary value problems of partial differential equations.
- To show students how to model physical systems with partial differential equations.

Suggested textbooks

- Boundary Value Problems and Partial Differential Equations, Powers.

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