Justification: To make the prerequisite more specific for MATH 5360.

MATH 5360 Partial Differential Equations. Three semester hours.

This is a basic course in partial differential equations. The course will cover the following: first order linear partial differential equations, classification of second order equations and canonical forms, Fourier series and integrals, the wave equation, the Cauchy problem for hyperbolic equations, the heat equation, the weak maximum principle, the strong maximum principle, the Laplace equation, Green's function and Poisson's formula. Prerequisite: MATH 5350 Graduate standing and permission of instructor.