

MATH 489 – Partial Differential Equations

Course Description from Bulletin: First-order equations, characteristics. Classification of second-order equations. Laplace's equation; potential theory. Green's function, maximum principles. The wave equation: characteristics, general solution. The heat equation: use of integral transforms. (3-0-3)

Enrollment: Elective for AM and other majors

Textbook(s): Walter E. Strauss, *Partial Differential Equations: An introduction*, Wiley

