COURSE NUMBER: **MATH 285**
COURSE NAME: **Ordinary and Partial Differential Equations**
CREDIT HOURS: **6 hours (6 lecture, 0 lab)**
QUARTERS OFFERED: A, W, SP, SU

PREREQUISITE

MATH 254 with a grade of "C" or higher.
Not open to students who have completed MATH 255

COURSE DESCRIPTION

Ordinary and partial linear and nonlinear differential equations; Fourier series; boundary value problems. Applications to engineering and the physical sciences.

GOALS AND/OR OBJECTIVES

To master the standard techniques of elementary ordinary differential equations, Fourier series, and separation of variables in partial differential equations; to develop problem-solving skills and interpretation of solutions.

TEXTBOOK

Elementary Differential Equations and Boundary Value Problems, Ninth Edition, William E. Boyce and Richard C. DiPrima, Wiley and Sons, Inc., 2009.