COURSE NUMBER: **MATH 255**
COURSE NAME: **Elementary Differential Equations**
CREDIT HOURS: **5 hours (5 lecture, 0 lab)**
QUARTERS OFFERED: SU

PREREQUISITE

MATH 254 with a grade of "C" or higher.

COURSE DESCRIPTION

A study of the basic concepts and methods of solving ordinary differential equations; first, second and higher order linear equations; Laplace transforms; series solutions; numerical methods; applications to physical sciences and engineering.

GOALS AND/OR OBJECTIVES

To acquaint the student with the various classes and methods of solution of elementary differential equations with emphasis on applications.

TEXTBOOK

Differential Equations with Boundary-Value Problems, 7th ed., Zill/Cullen, Brooks-Cole, 2009.

GENERAL INSTRUCTIONAL METHODS