

# MAT-285 : Differential Equations

**Credits** 3

**Lab** 2

**Lecture** 2

**Clinical/WkExp** 0

**State Prerequisites**

MAT-272: [Calculus II](#)

**Session Cycle**

Contact Program Advisor

**Course Material Fee** \$80.05

**Description**

This course provides an introduction to topics involving ordinary differential equations. Emphasis is placed on the development of abstract concepts and applications for first-order and linear higher-order differential equations, systems of differential equations, numerical methods, series solutions, eigenvalues and eigenvectors, and LaPlace transforms. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to differential equations-related problems with and without technology.