

# MAT345: Ordinary Differential Equations

A study of solution methods and applications of ordinary differential equations. Topics include first order equations, second and higher order linear equations, and linear systems. Additional topics are chosen from: the Laplace transform, power series techniques, Fourier series, nonlinear systems, calculus of variations. An introduction to partial differential equations may also be included.

**Credit Hour(s):** 3

**Co-Requisites:**

MAT325.

**Department:** [Mathematics, Physics, and Computer Science](#)

**Semester Offered:**

Spring