



Mathematics 605 Differential Equations III

Calendar Description: Systems of ordinary differential equations. Existence and uniqueness. Introduction to partial differential equations.

Prerequisites: Applied Mathematics 411 and Mathematics 445 or 447 or consent of Department

Antirequisite: Applied Mathematics 605

Textbooks:

- P, Hartman, Ordinary Differential Equations, Wiley
W. A. Strauss, Partial Differential Equations, an introduction", second ed, Wiley.

(see Course Descriptions under the year applicable: http://www.ucalgary.ca/pubs/calendar/)

Syllabus

Table with 2 columns: Topics and Number of Hours. Topics include Existence and uniqueness of solutions, Dependence on initial conditions, Linear systems, Nonlinear systems, Partial differential equations, and Optional topics. Total hours: 36.
