MA305 – Differential Equations II

Fall Term, 2017

Calendar Description

Numerical solutions of differential equations and boundary value problems; linear systems of differential and difference equations including their solution by matrix methods and their stability; introduction to dynamical systems. Numerical methods will be illustrated by exercises requiring the use of a computer.

Instructor

Professor Roderick Melnik (PhD)
Office: LH3075 (Lazaridis Hall)
Telephone: x3662
Office Hours: Tuesday and Thursday 2:30 p.m. – 3:30 p.m., or by appointment.
Email: rmelnik@wlu.ca

Lectures

- Tuesday and Thursday 1 p.m. – 2:20 p.m. in DAWB 1-101A (Dr. Alvin Woods Building)

Textbook

- Nagle, Saff, and Snider. *Fundamentals of Differential Equations and Boundary Value Problems*, 7th Edition. Addison-Wesley, 2017.

Calculators

During your examination, calculators, including programmable ones, are permitted.

Evaluation

A course mark out of 100 will be calculated from the following components:

- Assignments: 20%
- Midterm Exam: (Tuesday, Oct. 31, 2017, in class) 20%
- Final Exam: (exact date, time and location to be announced) 60%

The final mark will be reported as a letter grade in accordance with the conversion table of the current undergraduate calendar.

This document is a summary of the course outline for MA305 and is provided for the convenience of students. For a full statement of all course rules and information, consulting the course outline for MA305, available from the instructor, or from the Department.