MATH 215 – Elementary Differential Equations I
MATH 255 – Ordinary Differential Equations
Session 2017W, Term 2 (Jan–Apr 2018)
Course Outline

Textbook: W.E. Boyce, R.C. DiPrima, D.B. Meade: *Elementary Differential Equations and Boundary Value Problems*, 11th (or 10th) Edition.

Topics:

1. Introduction and First Order Differential Equations (Chapters 1, 2)

2. Second Order Linear Equations (Chapter 3)

3. The Laplace Transform (Chapter 6)

4. Systems of First Order Linear Equations (Chapter 7)

5. Numerical Methods (Chapter 8)

6. Nonlinear Differential Equations and Stability (Chapter 9)