MATH 256 (Section 102)

Differential Equations

Session 2015W, Term 1 (Sept-Dec 2015)

Instructor Information

Instructor: Brian Marcus
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Office: Math Building, Room 218
Office Hours: MWF 4:30-5:30 and by appointment
Phone: 822-3262

Course Information

Class time: MWF 2:00 - 2:50pm

Class location: Chem B150

Course web page: http://www.math.ubc.ca/~marcus/Math256 will be updated throughout the term.

Text: Boyce and DiPrima: Elementary Differential Equations and Boundary Value Problems, Wiley, 10th Edition.

Course Description :
This course is primarily an introduction to ordinary differential equations, but also includes a chapter on partial differential equations. Topics are as follows:
Introduction [Chapter 1]
First order ordinary differential equations [Chapter 2]
Second order linear ordinary differential equations [Chapter 3]
The Laplace transform [Chapter 6]
Systems of first order linear ordinary differential equations [Chapter 7]
Partial differential equations and Fourier series [Chapter 10]

Pre-requisites:
Integral Calculus (One of MATH 101, MATH 103, MATH 105, MATH 121, SCIE 001) AND
Linear Systems (One of MATH 152, MATH 221, MATH 223).

Co-requisite:
Multivariable Calculus (One of MATH 200, MATH 217, MATH 226, MATH 253, MATH 263).

Evaluation

The course mark will be based on weekly homework assignments (10%), two midterms (40%), and a final exam (50%).
Weekly Homework Assignments will be posted on the website and will be due usually on Fridays. Your lowest homework mark will be dropped.

Missed Exam Policy: Please make sure you do not make travel plans, work plans, etc., without regard to the examination schedule in this class. There will be no make-up or alternate exams.
If you miss a midterm, your score will be recorded as 0, unless you have a serious documented reason (an illness, a death in the family, etc.), in which case you should discuss your circumstances with the instructor as soon as possible, and in advance of the test.
Missed finals are not handled by the instructor or the Mathematics Department. Students with legitimate reasons for missing the final exam should request a "Standing Deferred" status through their Faculty.

Academic Integrity: The Mathematics Department strictly enforces UBC's Academic Integrity Code.

Students with Disabilities: Please see the instructor as soon as possible if you need any special accommodations.