

**Mathematics 3271 3.0: Partial Differential Equations
Fall 2017**

Days: Mondays, Wednesdays and Fridays

Time: 2:30 p.m. – 3:20 p.m.

Place: Bethune College 215

Course Coordinator: Professor M. W. Wong

Office: N530 Ross Building

Office Hours: Tuesdays and Thursdays, 11:30 a.m. - 1:00 p.m.

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Course Objectives: This is a first course in partial differential equations. The students are expected to learn Fourier series, integral transforms and other analytic techniques in order to construct explicit formulas for the solutions of the heat equation, the Laplace equation and the wave equation. The analysis required for the course will be developed in the course.

Textbook: H. F. Weinberger, A First Course in Partial Differential Equations with Complex Variables and Transform Methods, Dover, 1995

Syllabus: Sections 14-20, 22-24, 27-30

Grading Scheme:

3 Class Tests 20% each, Final Exam 40%

Important Dates

Test 1 on Wednesday, September 27, 2017

Test 2 on Wednesday, October 25, 2017

Test 3 on Wednesday, November 22, 2017

Final Exam: TBA

An Important Note about Tests and the Final Exam:

There will be no make-up tests. Students who have to miss a test for some good reasons may petition to move the weight of the test to the final exam.

The best way to study and understand the material of the course is to attend all the lectures (if possible) and do all the homework to be given out regularly during the semester. Although they are not counted towards your final grade and will not be graded, they are the model questions for the tests and the final exam.