



MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS sections 1445 & 1472

Instructor: Dr. Mengying Xiao, Little Hall 321

Meeting time and location: MWF 3:00-3:50 PM at Little 109

Office hours: MW 4:00-4:50, F 2:00-2:50 and by appointment

email: m.xiao@ufl.edu

Prerequisites:

MAP 2302 is required and a course in Linear Algebra would be helpful (not required).

Textbook:

Fundamentals of Differential Equations and Boundary Value Problems, the 7th edition, Addison-Wesley/Pearson (Publisher), by Nagle, Saff, Snider (required)

Course Description and Goals

The goal is studying the Series solutions, Matrix methods for systems, some elementary Partial Differential Equations and Eigenvalue Problems. We will cover most sections of Chapters 8,9,10 and 11 of the textbook.

Homework will be assigned regularly on Canvas and discussed in class, but not collected or graded. You are expected to participate in classroom for the discussion of lectures, assigned reading and homework.

Final Grades

The final course grade will be determined from 3 midterm exams (25% each) and several pop quizzes (25%). All of them are closed book, closed notes, and not cumulative.

Tentative exam dates: Sep 20 (Fri), Oct 25 (Fri), Dec 4(Wed).

Grading Scale

The letter grade is assigned using the scale:

A > 90 > B+ > 85 > B > 80 > C+ > 75 > C > 70 > D+ > 65 > D > 60 > F

Course Policy

A huge part of the transition into your professional careers is being where you are supposed to be when you are supposed to be there. I expect your presence at every lecture.

Students requiring accommodation for disabilities must make arrangements through the Disability Resource Center.

Students are expected to provide feedback on the quality of instruction by completing online evaluations. Typically this process takes place during the last weeks of the semester, students will be given specific times when they are open. The results of the evaluations are available when they are tabulated.

The student should be familiar with the University's Academic Honesty Policies.

<https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

Makeup exams will only be given for legitimate reasons like a serious illness, or a University excused absence. However, you **MUST** provide me with official written documentation **PRIOR** to the start of the test. No makeup quiz as your lowest quiz grade will be dropped at the end of the semester.

