Lei Zhang
Department of Mathematics
College of Liberal Arts and Sciences

Course 1 (Fall 2024) MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS

Course # 21657 Section 0101 and 21658 section 0103 Time and Location

M W F 4, 10:40am-11:30am Little 217

Office Hour: Tuesday 11:00-12:00 .

Office: Little Hall 466, phone: 2942344 email; leizhang at ufl dot edu

Course objectives and Goals:

I will cover the following topics: 1 Series solutions of differential equations. 2 Matrix methods for linear systems. 3 Elementary Partial Differential Equations, 4. Eigenvalue Problems and Sturm-Liouville Equations.

Weekly schedule:

I will use about 4 weeks to cover each of the topics mentioned above.

Textbook: Fundamentals of Differential Equations and Boundary Value problems by Nagle, Saff, Snider. 7th edition or higher ones

Please note that this course will be participating in the UF All Access program. Login at https://www.bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED and Opt-In to gain access to your required course materials – UF All Access will provide you with your required materials digitally at a reduced price and the charges will post directly to your student account, allowing any available Financial Aid funds to cover the cost of your materials. This option will be available starting 1 week prior to the first day of classes and ending 3 weeks after the first day of class.

Prerequisite:

Related Links

CLAS IT

College of Liberal Arts and Sciences

University of Florida

Grade C of Calculus 1, 2, linear algebra and MAP 2302.

Homework

Homework will be assigned after each lecture.

Final Grades

There will be three mid-term exams and a comprehensive final exam, all close to assigned homework problems. The tentative dates for

the four exams are:

Exam one: September 16 (Monday) (20%)

Exam two: October 16 (Wednesday) (20%)

Exam three: November 18(Monday) (20%)

Final exam: December 10 10:0am-12:00pm. (30%)

Homework grades: 10%

Grading Scale

A: 88 ; B+: 85; B: 80; C+: 75; C: 68; D: 60; E:0-59

Attendance and Late Policy

ABSOLUTELY NO MAKEUPS WITHOUT MEDICAL DOCUMENTATION. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at :

https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx

Students that need accommodation

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Information on current UF grading policies for assigning grade points:

https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx

Information on course evaluation

Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at

https://gatorevals.aa.ufl.edu/

Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at https://evaluations.ufl.edu/results/.

Home

Course 1 (Fall 2024) MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS

Course 2 (Fall 2024) MAP 4413 Fourier Series and Transformations | **Publications**

Research | **Curriculum Vitae** | **Blog** | **Teaching**

Course 1 (Fall 2024) MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS

Course 2 (Fall 2024) MAP 4413 Fourier Series and Transformations

UF UNIVERSITY of FLORIDA
The Foundation for The Gator Nation