

Lei Zhang

Department of Mathematics

College of Liberal Arts and
Sciences

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2025) MAP
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Course 1 (Spring 2025) MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS

Course # 12644 Section 1842 and 17936 section 9601
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: February 3 (Monday) (20%)

Exam two: March 3 (Monday) (20%)

Exam three: April 7 (Monday) (20%)

Final exam: May 1, 12:30pm-2:30pm. (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/>.

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