

Lei Zhang

Department of Mathematics

College of Liberal Arts and  
Sciences

Home

Current Course

Course 2 (Spring  
2022 ) MAD 4401  
Introduction to  
Numerical AnalysisCourse 1 (Spring  
2022 ) MAP  
4305/5304 DIF  
EQUA EG & PHY  
SCI/INTERMED  
DIFF EQUATNS

Publications

Research

Curriculum Vitae

Blog

Teaching

Course 1 (Spring  
2020 ) MAP 4413  
Fourier Series and  
Transformations  
section 7521Course 1 (Fall  
2021 ) MAP 4413  
Fourier Series  
and  
Transformations

# Course 1 (Spring 2022 ) MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS

Course # 14150 Section 1842 and 24628 section 9601  
Time and Location

M W F 3, 9:35am-10:25am FAC 120

Office Hour: Tuesday 11:00-12:00 in person Thursday 11:00-12:00 virtual.

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 preferred.**

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.

---

Course 2 (Fall 2021) Linear Algebra MAS 4105

---

Course 2 (Spring 2019) Linear Algebra MAS 4105 Section 3169, 17637

---

Course 1 (Spring 2019) MAP6357 Partial Differential Equations 1 /Section 366A Class # 17291

---

Course 1 (Fall 2020 ) MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS

---

Course 2 (Spring 2020) MAP6357 Partial Differential Equations 2 /23426

---

Course 1 (Summer, 2016 ) MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS sections 0642/0643

---

Course 1 (Spring 2018) MAP6357 Partial Differential Equations 2 /Section 2410

---

Course 2 (Spring 2018)

---

### Prerequisite:

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: January 31 (20%)

Exam two: February 28 (20%)

Exam three: March 28 (20%)

Final exam: April 26 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/](http://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

Linear Algebra  
MAS 4105  
Section 14G8

by completing online evaluations at

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

Course 1 (Fall  
2017) MAP6356  
Partial Differential  
Equations 1  
/Section 1762

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/>.

Course 2 (Fall  
2017) Linear  
Algebra MAS  
4105 Section  
1071

Course 2 (Spring  
2017) Elementary  
PDEs. MAP  
4341/5345  
Sections  
2780/2844

## Teaching

Course 1 (Spring  
2019) MAP6357  
Partial Differential  
Equations 1  
/Section 366A  
Class # 17291

Course 1 (Spring  
2020 ) MAP 4413  
Fourier Series and  
Transformations  
section 7521

Course 2 (Spring  
2020) MAP6357  
Partial Differential  
Equations 2 /23426

## Related Links

CLAS IT

College of Liberal Arts  
and Sciences

University of Florida



[Home](#) | [Current Course](#)

[Course 2 \(Spring 2022 \) MAD 4401 Introduction to Numerical Analysis](#) | [Publications](#)

[Research](#) | [Curriculum Vitae](#) | [Blog](#) | [Teaching](#)

[Course 1 \(Spring 2020 \) MAP 4413 Fourier Series and Transformations section 7521](#)

[Course 1 \(Summer, 2016 \) MAP 4305/5304 DIF EQUA EG & PHY SCI/INTERMED DIFF EQUATNS sections 0642/0643](#)

[Teaching](#)

[Course 1 \(Spring 2019\) MAP6357 Partial Differential Equations 1 /Section 366A Class # 17291](#)

[Course 1 \(Spring 2020 \) MAP 4413 Fourier Series and Transformations section 7521](#)

[Course 2 \(Spring 2020\) MAP6357 Partial Differential Equations 2 /23426](#)



© 2021 **University of Florida**, Gainesville, FL 32611; (352) 392-3261. Page Updated: December 24, 2021

This page uses [Google Analytics](#) ([Google Privacy Policy](#))