

Lei Zhang

Department of Mathematics

College of Liberal Arts and
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2021 \) MAP 4413
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Course 2 (Spring 2021) Linear Algebra MAS 4105

Time and Location

M T W F4, AND 0021 and online. 11:45am-12:35pm.

Starting from the second week, all the Tuesday lectures will be online including exams.

Office Hour: Thursday 11:00-12:00 Office Little Hall 466, phone: 2942344 email; leizhang at ufl dot edu

Course objectives and Goals

Topics to be covered: Linear equations, matrices, vector spaces, linear transformations, determinants, eigenvalues, inner-product spaces. This course includes both theory and computational skills. The student is expected to develop the ability to reason through, and coherently write up, proofs of theorems. For math majors, this course serves as a transition from a study of techniques into more conceptual math; for engineering and science majors, it serves also as a coherent foundation in linear algebra.

Weekly schedule:

week 1-2 chapter 1, week 3-4 chapter 2, week 5-6 chapter 3, week 7-8 chapter 4
week 9-10 chapter 5, week 11- chapter 6.

Textbook:

Linear Algebra edition 4/E (fourth edition), by Friedberg, Insel, Spence. [Prentice Hall ISBN: 0-13-008451-4]

Prerequisite:

Grade of C or better in MAC 2313 or MAC 3474 and in MAS 3300 or MHF 3202.

Homework

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 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
(Spring 2019)
MAP 2302
Elementary
Differential
Equations
section 022F
15646

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

Course 2
(Spring 2018)
Linear Algebra
MAS 4105
Section 14G8

Homework will be assigned after each lecture. It is very important to do all the assigned homework problems carefully, especially all the proof-based questions. I will ask the TA to grade one or two problems on each homework.

Final Grades

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

the four exams are:

Exam one: February 2 (20%)

Exam two: March 2 (20%)

Exam three: April 6 (20%)

Final exam : April 30, 7:30am-9:30am (30%)

Homework: 10%

Grading Scale

A: 90 ; 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://evaluations.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/>.

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

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

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[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](#)

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