

MAP 4305/5304: Intermediate Differential Equations, Fall 2021

Time: MWF, period 8, 3:00 – 3:50

Location: LIT 113

Instructor: Libin Rong

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Office: LIT 452

Phone: 352-294-2394

Office hours: Wed (at office) Fri (Zoom), period 7, 1:55 – 2:45 p.m. or by appointment

Textbook: Fundamentals of Differential Equations and Boundary Value Problems, 7th edition, by Nagle, Saff and Snider

Course Description: We will mainly cover Chapters 8, 9, and 10 from the textbook. Topics include power series methods, matrix methods for systems, introduction to partial differential equations, and Fourier series.

Prerequisites: Grade of C or better in MAP 2302. A course in Linear Algebra (MAS 3114 or MAS4105) would be helpful, but some necessary materials will be covered in class.

Homework: Homework will be assigned for practice on a regular basis but won't be collected. Keeping up with the homework is extremely important in order to be successful in this course.

Exams: There will be four in-class exams each with 100 points. The lowest of the first three exams will be dropped. Tentative dates for the exams are:

Exam 1: 9/17 Friday

Exam 2: 10/13 Wednesday

Exam 3: 11/8 Monday

Exam 4: 12/8 Wednesday

Grades: Grades are determined by three exams. Final grades are assigned according to the scale: 93-100 A, 90-92 A-, 87-89 B+, 83-86 B, 80-82 B-, 77-79 C+, 73-76 C, 70-72 C-, 67-69 D+, 63-66 D, 60-62 D-, 0-59 E.

Attendance and make-up policy: Attendance of each class is expected. No make-up exams will be given for the first missed exam among the first three exams. If students miss Exam 4 or more than one exam in the first three, then make up can be given only under extraordinary circumstances with a documented excuse (usually doctor's note).

Academic Honesty: Students are expected to know and follow the Code of Student Conduct, which can be found at <https://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/>

U Matter We Care: Your wellbeing is important to the UF. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a

friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Recording: Our class sessions may be audio-visually recorded for students in the class to refer back and for enrolled students who are unable to attend live. Students who participate with their camera engaged or utilize a profile image are agreeing to have their video or image recorded. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voice recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live. The chat will not be recorded or shared. As in all courses, unauthorized recording and unauthorized sharing of recorded materials by students or any other party is prohibited.

Additional Information

Grades: Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>.

Honor Code: “UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The [Honor Code](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.”

Class Attendance: “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>.”

Accommodations for Students with Disabilities: “Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://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.” **If students are approved to take exams at DRC, they need to file a request through the DRC website at least four business days before EACH EXAM.**

Online Evaluations: “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/>.”

Contact information for the Counseling and Wellness Center: <https://counseling.ufl.edu/>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Diversity statement: The Mathematics Department is committed to diversity and inclusion of all students. We acknowledge, respect, and value the diverse nature, background and perspective of students and believe that it furthers academic achievements. It is our intent to present materials and activities that are respectful of diversity: race, color, creed, gender, gender identity, sexual orientation, age, religious status, national origin, ethnicity, disability, socioeconomic status, and any other distinguishing qualities.