

MAP 2302 ELEMENTARY DIFFERENTIAL EQUATIONS

Summer A 2024

Instructor: Xiaochen Duan	Time: MTWRF 12:30 - 1:45 pm
Email: duanxiaochen@ufl.edu	Place: Little Hall 207

Course Pages:

1. <https://people.clas.ufl.edu/duanxiaochen/map-2302-summer-2024>

Office Hours: Thursday 2:00-4:45pm in LIT 429, or by appointment.

Main References: This is a restricted list of various interesting and useful books that will be touched during the course. You need to consult them occasionally.

- R. Kent Nagle, Edward B. Saff and Arthur David Snider, *Fundamentals of Differential Equations and Boundary Value Problems, 7th edition*, Pearson.
(You may use the previous edition and/or the version without boundary value problems if you prefer.)

Prerequisites: MAC 2312, and some of Calculus 3 backgrounds are recommended, but not necessary.

Tentative Course Outline:

- Introduction and first order differential equations (Chapter 1 and 2)
- Second order differential equations and power series solution (Chapter 4 and 8)
- Laplace transformation with differential equations (Chapter 7)

Grading Policy: Homework (25%), Midterm 1 (25%), Midterm 2 (25%), Midterm 3 (25%).

The letter grade will be awarded as follows:

Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	E
%	≥ 90	87-89	84-86	80-83	77-79	74-76	70-73	67-69	64-66	60-63	57-59	≤ 56

If you have a grade dispute, please resolve it with your instructor within a week of the exam date.

Important Dates:

Midterm #1 May 28, 2024
Midterm #2 June 10, 2024
Midterm #3 June 21, 2024

Accommodations for students with learning disabilities: Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <http://disability.ufl.edu/students/get-started>

Course Policy:

- Please sign up for Canvas. I will send the important message by Canvas.
- Regular attendance is essential and expected.

Late submissions:

- Due date is not do date!
- Please do not wait begin your assignments the day that they are due. If there are any last minute difficulties with your computer or access, you will be out of luck. Homework can be submitted late with a 25 percentages of penalty for each day beyond the due date. If documented illness or other extenuating circumstances cause you to miss a deadline for an assignment you will be granted extensions. You must contact the course instructor for details.

Academic Honesty: The course will be conducted in accord with the University honor code and academic honesty policy which can be found at <http://www.dso.ufl.edu/sccr/honorcodes/honorcode.php>. The Mathematics Department expects you to follow the Student Honor Code. We are bound by university policy to report any instance of suspected cheating to the proper authorities. Lack of knowledge of the academic honesty policy is not a reasonable explanation for a violation.

In addition, we remind you that lectures and the lecture notes given in this class are the property of the University/faculty member and may not be taped/shared without prior permission from the lecturer and may not be used for any commercial purpose. Students found to be in violation may be subject to discipline under the Student Conduct Code.

Diversity: 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.

Campus Resources:

1. **Health and Wellness U Matter, We Care:** If you or someone you know is in distress, please contact umatter@ufl.edu, 352-392-1575, or visit U Matter, We Care website to refer or report a concern and a team member will reach out to the student in distress.
2. **Counseling and Wellness Center:** Visit the Counseling and Wellness Center website or call 352-392-1575 for information on crisis services as well as non-crisis services.
3. **Student Health Care Center:** Call 352-392-1161 for 24/7 information to help you find the care you need, or visit the Student Health Care Center website.
4. **University Police Department:** Visit UF Police Department website or call 352-392-1111 (or 9-1-1 for emergencies).
5. **UF Health Shands Emergency Room /Trauma Center:** For immediate medical care call 352-733-0111 or go to the emergency room at 1515 SW Archer Road, Gainesville, FL 32608; Visit the UF Health Emergency Room and Trauma Center website.
6. **GatorWell Health Promotion Services:** For prevention services focused on optimal wellbeing, including Wellness Coaching for Academic Success, visit the GatorWell website or call 352-273-4450.
7. **Academic Resources E-learning technical support:** Contact the UF Computing Help Desk at 352-392-4357 or via e-mail at helpdesk@ufl.edu.

8. **Career Connections Center:** Reitz Union Suite 1300, 352-392-1601. Career assistance and counseling services.
9. **Library Support:** Various ways to receive assistance with respect to using the libraries or finding resources.
10. **Teaching Center:** Broward Hall, 352-392-2010 or to make an appointment 352-392-6420.
11. **General study skills and tutoring. Writing Studio:** 2215 Turlington Hall, 352-846-1138. Help brainstorming, formatting, and writing papers.
12. **Student Complaints On-Campus:** Visit the Student Honor Code and Student Conduct Code webpage for more information.