

MAP2302 Online Elementary Differential Equations

Summer C 2022

	Instructor:	Teaching Assistant	Teaching Assistant
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Canvas Messages: Check your messages **daily** so that you do not miss any important announcements.

Text: Fundamentals of Differential Equations and Boundary Value Problems by R. Kent Nagle, Edward B. Saff and Arthur David Snider, ISBN-13: 978-0321977106, ISBN-10: 9780321977106. You may use the previous edition and/or the version without boundary value problems if you prefer.

Requirements: A hardwired connection (not wireless) is strongly recommended when working and submitting assignments. It is the student's responsibility to have a reliable internet connection, adequate internet speed and cleared cache and cookies before starting each assignment .

Time commitment: University students are expected to spend at least 3 hours for each hour watching lecture videos in order to keep up with the course material.

Content: We will cover Chapters 1(Introduction), 2(First Order ODEs), 4(Second Order ODEs), 7(Laplace Transforms), and some of 8(Series Solutions).

Homework: Doing homework is essential to success in this course and is one of the best ways to prepare for quizzes and tests. Online homework is completed in Canvas. Homework is worth 15% of the grade. The lowest two scores are dropped. Each homework has **unlimited attempts**. Students who miss parts of a multiple-part question should feel free to ask about which parts were missed.

Quizzes: There will be ten online quizzes covering 2-4 lectures with **one attempt** each. The lowest two scores are dropped. Quizzes are worth 11% of the course grade. Online quizzes are 30-50 minutes long.

Discussion board: There is one discussion board for each exam period. If you have a question, please show your work and state the assignment from which the problem comes. The question must not have already been asked so read the boards daily. If you ask a question that has been answered in an online conference, you will be directed to watch the video of that conference unless you require specific clarification. Discussion boards are locked at 10 PM the night before each exam.

Practice Exams: Four online practice exams are due on the dates shown in the calendar. Practice exams are worth 5% of your grade. The lowest score is dropped. Each practice exam has one attempt. **Late submissions are not possible** as practice exams may be reviewed shortly after the due date.

Exams: Four exams will be given on the dates shown in the calendar. The fourth exam is comprehensive. Each is worth 17.5% of your grade.

Grades: The letter grade will be awarded with Canvas rounding up the display grade (i.e. 89.5 counts as A) as follows:

A	90%-100%	C	70%-74%
A-	87%-89%	C-*	67%-69%
B+	85%-86%	D+	64%-66%
B	80%-84%	D	60%-63%
B-	77%-79%	D-	57%-59%
C+	75%-76%	E	0-56%

If you have a grade dispute, please resolve it with your instructor **within a week** of the assignment deadline. Your grade is comprised of the following:

- 4 Exams 17.5% each
 - Quizzes 11% (drop two lowest scores)
 - Homework 15% (drop lowest two scores)
 - Practice Exams 5% (drop lowest score)
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Total: 101% (there is one extra credit point built in to the course).

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 disability.ufl.edu/students/get-started

Academic Honesty: The course will be conducted in accord with the University honor code and academic honesty policy which can be found at 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.

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.

Makeup Exams: If you miss an exam with valid documentation, you may take a makeup. If you miss without valid documentation, there will be a 10% penalty. Valid documentation includes documented illness, school-sponsored activity, death in the immediate family, court-ordered or military appointments, and religious holidays. Scheduled flights do not count as valid documentation so do not make plans for a flight which conflicts with exam dates and times. If you miss a second exam, the comprehensive fourth exam will replace it.

If illness or other extenuating circumstances cause you to miss an exam, contact the course coordinator immediately (no later than 24 hours after the exam) by email. Then, as soon as possible after you return to campus, bring the appropriate documentation to the course coordinator.

To be eligible for a make-up you must have completed at least 75% of the course work that has been given so far.

Late submissions: Homework and quizzes can be submitted late with a 20% penalty for each day beyond the due date. If documented illness or other extenuating circumstances cause you to miss a deadline for an assignment, the first two missed assignments will count as your drops while you will be granted extensions for the remainder. You must contact the course coordinator for details.

Evaluations: Course evaluations are now at <https://gatorevals.aa.ufl.edu/>

Privacy: Our class sessions, including office hours, 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 verbally are agreeing to have their voices 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 is prohibited.

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.

Exam Coverage

Exam 1 covers 1.1-1.4, 2.2-2.6 (L1-L9) and applications (L10)

Exam 2 covers 4.1-4.7 (L11-L17)

Exam 3 covers 7.2-7.6, 7.8-7.9 (L18-L24)

Exam 4 is comprehensive, approximately 50% chapter 8 (L25-L28) with the remainder from chapters 1-2, 4, and 7 (L1-24).

Tentative due dates (subject to possible revision)

Mon	Tues	Wed	Thur	Fri
May9	10	11	12	13
				HW1, HW2 Syllabus Quiz
16	17	18	19	20
HW3		HW4	Q1(L1-3)	HW5
23	24	25	26	27
holiday		HW6		HW7
30	31	June 1	2	3
HW8	Q2(L4-6)	HW9	Q3(L7-9)	HW10
6	7	8	9	10
PE1	Exam1 (L1-10)			HW11
13	14	15	16	17
HW12		HW13		HW14
20	21	22	23	24
break	break	break	break	break
27	28	29	30	July 1
HW15	Q4(L11-13)	HW16	Q5(L14-15)	HW17
4	5	6	7	8
holiday	Q6(L16-17), PE2	Review	Exam 2 (L11-17)	HW18
11	12	13	14	15
HW19		HW20		HW21
14	15	16	17	18
HW22	Q7(L18-21)	HW23		HW24
18	19	20	21	22
Q8(L22-24)	PE3	Review	Exam 3 (L18-24)	HW25
25	26	27	28	29
HW26		HW27		Q9(L25-26)
Aug 1	2	3	4	5
HW28	Q10(L27-28)	PE2	Review	Exam 4 (L1-28)

HW: 28 homework (unlimited attempts, drop 2 lowest) due 11:59 PM

Q: 10 quizzes (1 attempt, drop 2 lowest) due 11:59 PM

PE: 4 practice exams (1 attempt, drop 1 lowest) due 11:59 PM

Final Exam date: Friday August 5,2022 @ 8:00 PM - 10:30 PM

Tentative Book HW for extra practice (not collected for grade)

7th edition (mechanical clock)		6th edition (apple)	
section	problems	section	problems
1.1	1-11 odds		same
1.2	1-11 odds, 21-27 odds		same
1.3	1-7 odds, 11-17 odds		same
1.4	1,3,5, take two steps only		same
2.2	1-25 odds		same
2.3	1-21 odds		same
2.4	1-25 odds		same
2.5	1-11 odds		same
2.6	1-27 odds		same
1st order apps	2.4 33, 3.2 23-25 3.3 1-5 odds		same
4.2	1-19 odds, 27-31 odds		same
4.3	1-25 odds		1-17 odds, 21-25 odds
4.4	1-25 odds, 27-31 odds		same
4.5	9-35 odds	4.5	11-19 odds, 23-25 odds, 31-35 odds
4.6	1-9 odds,11		same
4.7	1-13 odds,19-20,41-44	4.7	1-13 odds,19-20,37-39 odds, 45-47 odds
7.2	1-19 odds		same
7.3	1-9 odds,13-17 odds, 25		same
7.4	1-25 odds		same
7.5	1-7 odds, 12, 15-23 odds		same
7.6	1-17 odds, 21-23 odds, no sketch	7.6	1-17 odds
7.8 (convolution)	1-21 odds, 23, 25	7.7 (convolution)	1-21 odds, 23, 25
7.9 (dirac delta)	1-17 odds, no sketch, 25, 27	7.8 (dirac delta)	1-17 odds, no sketch, 25, 27
8.1	1-5 odds, 9a		same
8.2	1-5, odds, 11-13 odds,17-27 odds, 29, 33		same
8.3	1-27 odds		same
8.4	1-15 odds		same