

MAP2302 Elementary Differential Equations

Summer C 2021 Section: 1958(16945) online

Instructor: Carol Demas, LIT323, email: demasc@ufl.edu,

Office hours MTR 9-10 AM through Zoom.

Live Lectures through Zoom 8-9: AM MTWR will be recorded for later viewing.

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

Text: Fundamentals of Differential Equations by R. Kent Nagle, Edward B. Saff and Arthur David Snider, ninth edition, ISBN-13: 978-0321977069, ISBN-10: 0321977068. You may use the eighth edition if you prefer.

Requirements: A hardwired connection (not wireless) is strongly recommended when working on quizzes, exams and /or submitting assignments. It is the student's responsibility to have a reliable internet connection, adequate internet speed (check with Honorlock and do a system check prior to the exam) and cleared cache and cookies before each exam. Webcams are required for online exams.

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).

Lecture Quizzes: Each lecture has a brief online quiz in Canvas. Lecture quizzes are worth 6% of the grade. The lowest two scores are dropped. Each lecture quiz has two attempts.

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 6% of the grade. The lowest two scores are dropped. Each homework has three 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 quizzes covering 2-4 lectures with one attempt each. The lowest two scores are dropped. Quizzes are worth 12% of the course grade. 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. You are expected to 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 4% of your grade. The lowest score is dropped. Each practice exam has one attempt. Late submissions are not possible as practice exams are reviewed the day after the due date.

Exams: Four exams will be given through Honorlock on the dates shown in the calendar. The fourth exam is comprehensive. Each is worth 18% of your grade. A hardwired connection (not wireless) is strongly recommended when working on quizzes, exams and /or submitting assignments. It is the student's students responsibility to have reliable internet connection, sufficient internet speed and cleared cache and cookies before each exam. Webcams are required for use of Honorlock.

Grades: The letter grade will be awarded 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 18% each
Quizzes 12% (drop two lowest scores)
Lecture Quizzes 6% (drop lowest two scores)
Homework 6% (drop lowest two scores)
Practice Exams 4% (drop lowest score)

Total: 100%

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 on Tuesday August 3. If you miss without valid documentation, there will be a 10% penalty for its replacement. Valid documentation includes documented illness, court-ordered or military appointments, and religious holidays. If you miss a second exam, the comprehensive fourth exam will replace it.

Late submissions: Homework, lecture quizzes, and quizzes can be submitted late with a 20% penalty for each day beyond the due date.

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-L10)

Exam 2 covers 4.2-4.7 (L11-L17)

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

Exam 4 is comprehensive, approximately 33% chapter 8 (L25-L28) and 67% chapters 1-2, 4, and 7.(L1-24)

Final Exam (Exam 4): Friday August 6

Tentative due dates (subject to possible revision)

Sun	Mon	Tues	Wed	Thur	Fri	Sat
	May 10	11	12	13	14	15
			LQ1/HW1 Syllabus Quiz		LQ2/HW2	
16	17	18	19	20	21	22
	holiday		LQ3/HW3		LQ4/HW4	
23	24	25	26	27	28	29
Quiz1(L1-3)	LQ5/HW5		LQ6/HW6		LQ7/HW7	
30	31	June 1	2	3	4	5
Quiz2(L4-6)	Holiday		LQ8/HW8		LQ9/HW9	
6	7	8	9	10	11	12
Quiz3(L7-9)	LQ10/HW10	PE1	Exam1 (L1-10)		LQ11/HW11	
13	14	15	16	17	18	19
	LQ12/HW12		LQ13/HW13		LQ14/HW14	
20	21	22	23	24	25	26
Quiz4(L11-13)	Break	Break	Break	Break	Break	
27	June 28	29	30	July 1	2	3
	LQ15/HW15		LQ16/HW16		LQ17/HW17	
4	5	6	7	8	9	10
Quiz5(L14-16)	Holiday		Exam 2 (L11-17)		LQ18/HW18	
PE2						
11	12	13	14	15	16	17
Quiz6(L16-17)	LQ19/HW19		LQ20/HW20		LQ21/HW21	
18	19	20	21	22	23	24
Quiz7(L18-21)	LQ22/HW22		LQ23/HW23		LQ24/HW24	
25	26	27	28	29	30	31
PE3	Exam 3 (L18-24)		LQ25/HW25		LQ26/HW26	
Quiz8(L22-24)						
1	2	3	4	5	6	7
Quiz9(L25-26)	LQ27/HW27	LQ28/HW28 Exam1-3 makeup	Quiz10(L27-28) PE4		Final Exam	

HW: 28 homework (3 attempts, drop 2 lowest) due 11:59 PM

LQ: 28 lecture quizzes (2 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

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

9th edition (mechanical clock)		8th 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

Tentative Lecture Schedule (subject to possible revision)

Sun	Mon	Tues	Wed	Thur	Fri	Sat
	May 10	11	12	13	14	15
	L1	L2	L3	L4		
16	17	18	19	20	21	22
	holiday	L5	L6	L7		
23	24	25	26	27	28	29
	L8	L9	L10	L11		
30	31	June 1	2	3	4	5
	Holiday	L12	L13	L14		
6	7	8	9	10	11	12
		Review	Exam 1 no lecture			
13	14	15	16	17	18	19
	L15	L16	L17	L18		
20	21	22	23	24	25	26
	Break	Break	Break	Break	Break	
27	June 28	29	30	July 1	2	3
	L19	L20	L21	L22		
4	5	6	7	8	9	10
	Holiday	Review	Exam 2 no lecture			
11	12	13	14	15	16	17
	L23	L24	L25			
18	19	20	21	22	23	24
				Review		
25	26	27	28	29	30	31
	Exam 3 no lecture	L26	L27	L28		
Aug 1	2	3	4	5	6	7
			Review	Review	Exam 4 no lecture	

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