

Elementary Differential Equations
MAP 2302 Section 5609
FALL 2019

Instructor: Dr. Konstantina Christododouloupoulou

Office Phone: (352) 294- 2315

Office Location: 365 LIT

Email: kchristod@ufl.edu

Office Hours: M4, R5, F6 and by appointment

Open Door Policy: You are welcome to drop by to discuss any aspect of the course, anytime.

All course materials will be posted in e-Learning CANVAS <https://elearning.ufl.edu/>

Text: *Fundamentals of Differential Equations and Boundary Value Problems* by R. Kent Nagle, Edward B. Saff and Arthur David Snider, 7th edition. Follow the instructions in the Syllabus tab in CANVAS if you wish to use UF Access and opt-in. The deadline to opt-in is Friday, September 13.

Course content and objectives: This course presents techniques for solving and approximating solutions to ordinary differential equations. We will cover selected material from Chapters 1(Introduction), 2(First Order ODE), 3(First Order Applications), 4(Second Order ODE), 7(Laplace Transform), and 8(Series Solutions).

Reading: It is essential that you work on the material outside the classroom. Carefully read the textbook before coming to class and use pencil and paper to work through the material. A course calendar (subject to revision during the term) is available at the end of the syllabus and also in the syllabus tab on CANVAS. There you can find which sections will be covered during each lecture. *It is expected that you have read the relevant textbook sections before each lecture, so that you will be able to better grasp the material presented.*

Office Hours: I encourage you to take advantage of my office hours and my **open door** policy. You are welcome to drop by my office to talk about the course anytime I am in my office and my door is open. In addition, I will hold regular office hours for your convenience. If you cannot make my posted hours I will also be happy to set a meeting time that is convenient for both of us.

Course Web Page: I will update CANVAS regularly with class announcements, lecture notes, and additional materials. All grades are posted in the Canvas gradebook. You are responsible for verifying that those grades are accurate. **You have one week after a score has been posted to contact me to resolve any grade concerns. We will not consider any grading disputes nor make any grade adjustments at the end of the term. Be sure to save all original documents in case of grading questions.**

Grading:

3a COURSE GRADE: Your course grade is computed as follows:

Quizzes	10%
Applications Projects (best 2 of 3)	5%
Semester exams	60%
Cumulative Final exam	25%

The following grading scale applies.

A	$\geq 90\%$	C	$\geq 70\%$
A–	$\geq 87\%$	C–	$\geq 67\%$
B+	$\geq 84\%$	D+	$\geq 64\%$
B	$\geq 80\%$	D	$\geq 60\%$
B–	$\geq 77\%$	D–	$\geq 56\%$
C+	$\geq 74\%$	E	$< 56\%$

The current UF grading policies for assigning grade points is available here: <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/> **There will be no additional curve in this course and extra assignments for individual students to improve a grade are NOT possible.**

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Homework: Homework will be assigned for each lesson in CANVAS but will not be collected. Doing homework is essential to your success in this course as it is one of the best ways to prepare for quizzes and tests.

Attendance and Participation: You are expected to participate in class discussions and activities. Therefore, *it is absolutely essential that you attend class*. Excused absences are consistent with university policies in the undergraduate catalog <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx> and require appropriate documentation.

Quizzes: There will be seven quizzes on the dates listed in the calendar and the two lowest scores will be dropped. Quizzes are worth 10% of your grade. You must work individually on the quizzes, and no calculators are permitted.

Submitted work expectations: Submitted projects should be neat, organized, and clearly presented. Papers not meeting these standards may have the scores reduced or may be returned ungraded.

Exams: Three semester exams and a final exam are scheduled for this course. The semester exams are tentatively scheduled for Friday September 20, Friday, October 18, and Friday, November 15, and the cumulative final exam is scheduled for Thursday, December 12, 10AM-12PM. The

specific sections covered by each exam are given on the tentative course calendar and will also be announced in class and on CANVAS. No calculators are permitted on exams. **The exams cannot be rescheduled unless you meet the University requirements; see <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.** Absolutely no collaboration on exams is allowed.

Make-up policies: 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:

catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/

Acceptable absences include but are not limited to the following: you are participating in a UF-sponsored event and provide me with documentation at least a week in advance; you were verifiably ill during the exam and notified me within 24 hours of its conclusion; you are observing a religious holiday and have notified me of this during the first two weeks of classes; you have a court-ordered obligation and have provided me documentation a week in advance. Please note that "I just didn't feel well" without documentation, travel plans, and personal schedule conflicts are NOT excused.

Class guidelines: It is expected that everyone in our class will act in a respectful manner:

- Please be respectful of your classmates and me while in class or office hours.
- I expect that you are committed to learning and will not miss class. Arriving late (after we have started class) or leaving early is disruptive and disrespectful. If however, you cannot avoid it, please arrange it in advance with me.
- Turn off all cell phones before the start of class.
- Laptops are not to be used in class.

One-week policy: All grades are posted in the Canvas gradebook. You are responsible for verifying all grades are accurate. You have one week after a score is available to discuss any grade concerns with me. There is no grades dispute after one week.

Incomplete: A student who has completed a major portion of the course with a passing grade but is unable to complete the final exam or other course requirements due to illness or emergency may be granted an incomplete, indicated by a grade of "I". This allows the student to complete the course within the first six weeks of the following semester. You must contact me before finals week to sign an incomplete grade contract (<http://clas.ufl.edu/forms/incomplete-grade-contract.pdf>), and must provide documentation of the extenuating circumstances preventing you from taking the final exam. The grade of "I" is never used to avoid an undesirable grade, and does not allow a student to redo work already graded or to retake the course. See the official policy at <http://www.math.ufl.edu/departments/incomplete-grades/>.

Students with learning disabilities: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://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 in order to allow enough time for accommodations to be arranged.

Academic honesty: 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 (<https://sccr.dso.ufl.edu/process/student-conduct-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 in this class.

In addition, we remind you that *lectures and the course materials 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.*

Online Course Evaluation: Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.a.a.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or <https://viaufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students <https://atgatorevals.a.a.ufl.edu/public-results/>.

Tips for the Course:

- *Mathematics is not a spectator sport.* Your participation and engagement with the material is essential.
- Discuss the topics with your classmates.
- Take advantage of my office hours. This time is set aside for us to help you.
- Don't hesitate to ask questions in class.
- Be reminded that 2 student hours devoted to assignments and preparation for every hour of classroom time is a reasonable expectation for an average student.
- Barring unforeseen medical or other serious conditions, I expect you to be in class on time every day. If you must miss a class, please let me know as soon as possible and be sure to contact a classmate to find out what you missed.
- If you are in trouble see me immediately. If you think you are in danger of failing (or of getting a grade that you do not want) you should see me immediately. I will not give you an extra credit assignment or an incomplete to help you avoid failing, but I can make recommendations regarding drops, study habits, test taking skills, future courses, etc.

Campus Resources:

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 <https://umatter.ufl.edu/> to refer or report a concern and a team member will reach out to the student in distress.

Counseling and Wellness Center: Visit <https://counseling.ufl.edu/> or call 352-392-1575 for information on crisis services as well as non-crisis services.

Student Health Care Center: Call 352-392-1161 for 24/7 information to help you find the care you need, or visit <https://shcc.ufl.edu/>.

University Police Department: Visit <https://police.ufl.edu/> or call 352-392-1111 (or 9-1-1 for emergencies).

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;<https://ufhealth.org/emergency-room-trauma-center>.

This syllabus is subject to change. You will be notified if any changes are made.

Updated 8/19/2018

FALL 2019 – MAP 2302 Calendar

Exam 1 (L1-L9) – Friday, September 20

Exam 2 (L11-L17)–Friday, October 18

Exam 3 (L18-L23)-Friday, November 15

Cumulative Final Exam (L1-L28)–Thursday, December 12, 10AM-12PM

Monday	Wednesday	Friday
	Aug 21 L1(1.1)	23 L2(1.2)
26 L3(1.3)	28 L4(1.4)	30 L5(2.2)/ Quiz 1 (1.1, 1.2)
Sep 2 Labor Day/No Class	4 L6(2.3)	6 L7(2.4)/ Quiz 2 (1.3, 2.2)
9 L8(2.5)	11 L9(2.6)	13 L10(1 st order apps)/ Quiz 3 (2.3, 2.4)
16 L11(4.1)	18 Review/catch-up	20 Exam 1 (L1-L9)
23 L12(4.2)	25 L13(4.3)	27 L14(4.4)/ 1st order apps project due
30 L15(4.5)	Oct 2 L16(4.6)/ Quiz 4(4.2,4.3)	Oct 4 UF Homecoming/No Class
7 L16(4.6)	9 L17(4.7)	11 L17(4.7)/ Quiz 5(4.4, 4.5)
14 L18(7.2)	16 Catch-up/Review	18 Exam 2 (L11-L17)
21 L18(7.2)	23 L19(7.3)	25 L20(7.4)/ 2nd order apps project due
28 L20(7.4)	30 L21(7.5)	Nov 1 L21(7.5)/ Quiz 6(7.2, 7.3)
4 L22(7.6)	6 L22(7.6)	8 L23(7.7)/ Quiz 7(7.4, 7.5)
11 Veterans Day/No Class	13 Catch-up/Review	15 Exam 3 (L18-L23)
18 L24(7.9)	20 L25(8.1)	22 L26(8.2)
25 L27(8.3)	27 Thanksgiving/No Class	29 Holiday/No Class
Dec 2 L28(8.4)	4 Catch-up/Review/ Laplace transform apps project due	6 Reading Day/ No Class