

MACP2302 - Elementary Differential Equations

Summer A 2023 Syllabus

The information in this syllabus is preliminary and subject to change. Check Canvas for updates.

Contact Information

The course home page is located in Canvas. Log in to Canvas at [elearning.ufl.edu](https://learning.ufl.edu).
The Inbox in Canvas is the preferred method for communication for the class.

Instructor

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Introduction

Course Content

First-order ordinary differential equations, theory of linear ordinary differential equations, solution of linear ordinary differential equations with constant coefficients, the Laplace transform and its application to solving linear ordinary differential equations.

Prerequisite, Course Sequence, and Credit

MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C.

Required Materials

R. Kent Nagle, Edward B. Saff and Arthur David Snider. Fundamentals of Differential Equations. 9th Edition. (Pearson) (2018). ISBN 978-0321977069

Older editions and editions with boundary value problems also acceptable. 7th Edition ISBN: 978-0321977106

E-Learning and Canvas

Canvas is the central website for our class. To access it go to [elearning.ufl.edu](https://learning.ufl.edu) and log in with your Gatorlink credentials. All, class announcements, assignments, lecture outlines, and other information will be posted there. You are responsible for verifying that your grades are accurate.

Your grades for assignments will also be posted on Canvas. I am always happy to discuss the content of an assignment, but grade issues must be dealt with in a timely manner. **You have one week after a score has been posted to contact your instructor if you believe there has been a grading or a recording error.** Grades are not eligible to be changed after that.

Lectures

Lecture days are indicated on the calendar. Live lectures will be streamed and recordings posted to Canvas.

Calculator Policy

No calculator or other electronic device will be allowed on exams.
A calculator may sometimes be needed to complete homework questions.

Success

Success in this course comes from your effort and attitude. Keeping up with the material is critical. The most important factor for success in math is class attendance and participation. Students who come to class succeed much more often than those who do not.

That said, most of the learning you will do in this course will come from the work you do. Mathematics is not a spectator sport. Watching someone solve a problem is very different from being able to solve it yourself. In order to succeed you must be willing to put in the time and effort to answer questions independently.

Grading and Assignments

Course Grade

Here is a breakdown of the items that will determine your grade in this course:

Item	Grade %	Comments
Homework	15%	
Quizzes	15%	Lowest two scores dropped
Exams	55%	Lowest score replaced by final (if it is higher).
Final Exam	15%	Cumulative final exam.
Extra Credit	Up to 1.5%	

The Canvas Gradebook is programmed to handle the quiz score drops mentioned above. Drops will appear in gray in the Gradebook and will change as you acquire more scores.

Your course letter grade is based on the overall percentage you earn according to the items above. Final percent scores will **not** be rounded.

A	90%	B-	77%	D+	64%
A-	87%	C+	74%	D	60%
B+	84%	C	70%	D-	57%
B	80%	C-	67%	E	Below 57%

Your grade is your responsibility. You have exactly one week once your assignment has been graded to discuss that grade. After that week, the grade is final. No additional points will be awarded to boost your grade, and final grades will not be rounded.

Homework

Each lecture has a corresponding homework assignment in Canvas, usually due at the beginning of the next class meeting. You may request a 24-hour extension if you need, but work done after the original deadline will be penalized 20%.

Quizzes

Quizzes will be on Wednesdays and Fridays, except on days with exams. Quizzes are designed to be done multiple times and will present different questions for each attempt. The best of your attempts is the one that will count towards your grade. You should treat the quizzes as practice for the exams.

Exams

There will be three midterm exams as well as a cumulative final exam. Exams will be done in-person during class.

- Exams will be taken at the date and time indicated on the course schedule.
- No calculator or other electronic device is allowed.

Extra Credit

Each lecture/homework has a discussion board in Canvas. You may earn a bonus of up to 1.5% on your course grade through participation in these discussions. Participation includes:

- Asking a coherent mathematical question including details of your own attempts. (So “How do you do question 12?” doesn’t count)
- Providing a substantive and understandable solution to a fellow student’s question. (So “The answer is 8.” doesn’t count)

Policies and Additional Information

Calculator Policy

You may need a scientific calculator, or graphing calculators to help with homework questions. Calculators will not be allowed on exams.

Make-up Policies

Makeup exams will only be given in case of documented illness or for students participating in official College events. All late work will be penalized. Students will NOT be given the opportunity to complete old assignments at the end of the semester to improve their grades. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with [university policies](#).

Incomplete/Concerns/Complaints

- **Incomplete** - A grade of I (incomplete) will be considered only if you meet the Math Department criteria which are found at www.math.ufl.edu. If you meet the criteria you must contact your coordinator before finals week to be considered for an I. An I only allows you to make up your incomplete work, not redo your work.
- **Concerns/Complaints** - If you have concerns/complaints about the course you may voice your concerns to the course coordinator, the Mathematics Department Associate Chair, and then the University Ombuds at ombuds.ufl.edu.

Instructor 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 gatorevals.aa.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 via ufl.bluera.com/ufl. Summaries of course evaluation results are available to students at gatorevals.aa.ufl.edu/public-results.

COVID Precautions

For those who will be attending lectures in-person: In response to COVID-19, the following policies and requirements are in place to maintain your learning environment and to enhance the safety of our in-classroom interactions.

- If you are not vaccinated, get vaccinated. Vaccines are readily available at no cost and have been demonstrated to be safe and effective against the COVID-19 virus. Visit [this link](#) for details on where to get your shot, including options that do not require appointment.
- If you are sick, stay home. Attending class is not worth endangering your or your classmates' health.

Students With Disabilities

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the [Disability Resource Center](#). It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

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](#) 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.

Class Recordings

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 are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor. Publication without permission of the instructor is prohibited. To "publish" means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section.

Schedule

	Monday	Tues	Wednesday	Thurs	Friday
5/15 - 5/19	L1:1.1/1.2	L2:1.3/1.4	L3:2.2 Quiz 1	L4:2.3	L5:2.4 Quiz 2
5/22 - 5/26	Holiday Memorial day	L6:2.5	L7:2.6 Quiz 3	L8:3.2-3.4	Exam 1
5/29 - 6/2	L9:4.1/4.2	L10:4.3/4.9	L11:4.4 Quiz 4	L12:4.5	L13:4.6
6/5 - 6/9	L14:4.7	L15:4.10 Quiz 6	Review	Exam 2	L16:7.1/7.2
6/12 - 6/16	L17:7.3	L18:7.4	L19:7.5 Quiz 7	L20:7.6	L21:7.7 Quiz 8
6/19 - 6/23	Holiday Juneteenth	L22:7.8/7.9	Exam 3	Review	Final Exam