

Elementary Differential Equations
MAP 2302 Online
3 Credit Hours
Summer C 2020

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Online Office Hours: Monday 1pm-2pm
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Friday 11am-12pm
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Prerequisites MAP2302 assumes that you have essential Calculus 2 (MAC 2312) skills necessary to succeed in this course. Students should be able to do the work without a calculator. A grade of C in UF MAC 2312 meets the minimum requirement for the course. We encourage students to review the prerequisite material to gain a strong knowledge in order to succeed in Differential Equations.

Required Materials Text: Fundamentals of Differential Equations by R. Kent Nagle, Edward B. Saff and Arthur David Snider, ninth edition, ISBN-13: 978-0321747730, ISBN-10: 0321747739. You may use the eighth edition if you prefer.

Computer Access and Requirements: All assignments should be taken on a computer, not cell phone or tablet, since there may be compatibility issues with Canvas. You are responsible for having access to a working computer and have your work completed on time. It is strongly recommended that you complete and submit your work early.

Course Description This course presents techniques for solving and approximating solutions to ordinary differential equations. It is primarily for students in disciplines which emphasize methods. We will cover some material from Chapters 1(Introduction), 2(First Order ODE), 4(Second Order ODE), 7(Laplace Transform), and 8(Series Solutions).

This is an ONLINE VERSION of MAP 2302—all content is delivered online. Students view 28 online lecture videos and complete lecture questions/quizzes in the course management system Canvas and complete online homework. Students are encouraged to post questions and answers on the course Discussion Board in Canvas. Three semester unit exams and a cumulative final exam are posted in Canvas and administered through Honorlock.

E-Learning Canvas: E-learning canvas, a UF course management system, is located at elearning.ufl.edu. Use your Gatorlink username and password to login. All course information including your grade, course homepage, syllabus, lecture outlines, office hours, test locations, mail tool, discussion forum, free help information, etc. can be accessed from this site.

You are responsible for verifying that your grades are accurate. **You have one week after a score has been posted to contact your instructor if you believe there has been a recording error. There is no grade dispute at the end of the semester.**

Please note: Important course information is clearly communicated in this course guide and the MAP 2302 homepage and links in Canvas. Due to the volume of email received by the instructor and TAs, we cannot reply to each request for this well publicized information. If you cannot find your answer in the resources above, there is also a **Discussion Forum** available in Canvas. Please use this to post questions and to supply answers to your fellow students.

E-mail

All communication between student and instructor and between students should be respectful and professional. All official class communications will be sent only to the ufl.edu addresses. Students are responsible for acquiring, checking their email accounts regularly, and any class information sent to their ufl.edu account. Please be sure to sign your name to your e-mails.

Online Lectures

The lecture videos provide the main presentation of course material, and are accessed through the CANVAS modules. To stay current with the course, we recommend watching the videos following the schedule posted on the course calendar. You should watch the lectures and answer the corresponding Lecture Quiz Questions before attempting homework. You may contact your instructor or post questions on the course discussion board if you need clarification of a topic. It is possible to get ahead in this class if you complete each assignment early. If you have other commitments, adjust your schedule to complete the assignments earlier rather than later. However, the test dates will NOT be extended. You can download and print lecture note outlines from each module page in Canvas.

Success

I want you to be successful in this class, I am on your side and will be working hard to make sure you always have the resources to have a clear path to success. But I cannot walk that path for you! It will take considerable effort on your part. Other than having a strong Calculus 2 background, success in MAP 2302 depends largely on your attitude and effort.

Keeping up with the videos is critical. You may find it beneficial to work daily on the material as opposed to saving it all for one day. It is not effective to watch video and copy notes without following the thought processes involved in the lecture. For that reason, there are Lecture Quizzes following each lecture which you will answer in Canvas as part of your course grade.

We encourage you to ask questions on the Discussion Board, seek help from your instructor, and the Broward Teaching Center, www.teachingcenter.ufl.edu, for online tutoring services. Do not let misunderstandings go unanswered. We encourage students to work together, and an important resource to facilitate communication in an online course is the MAP 2302 Discussion Board in Canvas. You should check the Discussion Board regularly, posting questions and answers for fellow students. The effort of asking questions and communicating ideas clearly, as well as the practice of writing solutions, are effective tools in helping you better understand calculus concepts. This is YOUR forum, take advantage of it by participating in it.

Tests

Mid-term exam dates are as follows:

Friday, June 5th

Friday, July 10th

Friday, July 31st

Makeup, August 12th

There are three semester unit exams and one cumulative final exam given in CANVAS on the dates shown on the course calendar and administered through Honorlock. All exams have a start time from 9:30AM –9:30PM EST, and you will have 2 hours to complete the exam. It is your responsibility to be sure that you have a reliable internet connection and to ensure that your environment meets proctoring requirements.

The FINAL EXAM will be on Friday August 14th. Like the midterms, you can start the exam anytime between 9:30AM -9:30PM, and you will have 2.5 hours to complete the exam. Note that the final exam is cumulative.

For each exam, you must use the Honorlock browser extension, or your exam will not be counted. Please only bring your UFID, a writing utensil, and blank scratch paper to the exam.

**Canvas
Homework**

Online homework administered in Canvas is planned to review concepts and provide practice of the lecture material. The homework problems are graded by the software and you see your score immediately after submitting your work. I want to encourage to continue working on the homework so I will allow requests for extensions. However, keep in mind that you should stay on top of the homework due dates if you want to be successful in the exams. Do not try to complete an assignment in one sitting; start early instead of waiting until the due date to avoid missing the deadline.

Lecture Quizzes

MAP 2302 is organized into 28 lectures in Canvas, each lecture has an introductory page including the concepts to be covered, things you need to do for this lecture. From there, you may link to the lecture videos and a copy of the note outlines for each lecture. Viewing the video is an important aspect of the learning process. There are several lecture questions in each Lecture Quiz to be completed at the end of each lecture. You will earn points by completing lecture quizzes by the specified due date. You should work these problems after you watch the lectures and then enter your answers directly in Canvas. We encourage you to use the text as well as the videos or the discussion board to help answer these questions. These questions pertain to the concepts recently covered. It is best to do them as soon as possible. Post questions on the course discussion board if you need clarification of a topic.

Make-up Policy

All make-up work must be arranged with your instructor.

- **Make-up Exams** To be eligible for a make up, you must have signed up with the instructor at least two weeks prior to the exam date (unless last minute emergency) with valid documented UF approved excused absences: <https://catalog.ufl.edu/UGRD/academic-regulations/attendance-policies/> If illness or other last minute extenuating circumstances cause you to miss an exam, you must contact your instructor within 24 hours of the exam with a valid documentation for approval to reschedule the exam. If you miss an exam without valid documentation, there will be a ten percent penalty on your exam.
- **Make-up Canvas Homework and Lecture Quizzes:** There are no make-ups, but your two lowest grades (for each category) will be dropped.

Incomplete Students who are currently passing a course but are unable to complete the course because of illness or emergency may be granted an incomplete grade of I which will allow the student to complete the course within the first two weeks of the following semester. See the policy on <http://www.math.ufl.edu/fac/incompletes.html>. If you meet the criteria, you must see your instructor before finals week to be considered for an I. An I only allows you to make up your incomplete work, not redo your work.

Grading Canvas Homework (lowest 2 dropped): 15%
Lecture Quizzes (lowest 2 dropped): 15%
Midterm Exam Average (3 mid-term exams): 45%
Final Exam: 25%

Grading Scale

90-100 A	87-90 A-	84-87 B+	80-84 B
77-80 B-	74-77 C+	67-74 C	64-67 C-*
60-64 D+	57-60 D	54-57 D-	0-54 E

***Note** A grade of C- DOES NOT give Gordon Rule or General Education credit!

For those take the S-U option: 67-100 S 0-67 U

Approval of the S-U option must be obtained from your instructor. The deadline for filing an application with the Registrar and further restrictions on the S-U option are given in the Undergraduate Catalog.

For a complete explanation of current policies for assigning grade points, refer to the UF undergraduate catalog:

catalog.ufl.edu/ugrad/regulations/info/grades.aspx

NOTE: We will not review disputed points at the end of the semester. All grade concerns must be settled within one week of the return of the paper.

Calculators Calculators are **NOT** permitted on exams and lecture quizzes. Please avoid using a calculator on homework as it will not help you prepare for the exams.

Students with Learning Disabilities Students requesting class and exam accommodations must first register with the Dean of Students Office Disability Resource Center (DRC), www.dso.ufl.edu/drc/. That office will provide a documentation letter via email to your instructor. This must be done as early as possible in the semester, **at least one week before the first exam**, so there is adequate time to make proper accommodations.

Academic Honesty Guidelines All students are required to abide by the Academic Honesty Guidelines which have been accepted by the University. The academic community of students and faculty at the University of Florida strives to develop, sustain and protect an environment of honesty, trust, and respect. Students are expected to pursue knowledge with integrity. Exhibiting honesty in academic pursuits and reporting violations of the Academic Honesty Guidelines will encourage others to act with integrity. Violations of the Academic Honesty Guidelines shall result in judicial action and a student being subject to the sanctions in paragraph XIV of the Student Code of Conduct. The conduct set forth hereinafter constitutes a violation of the Academic Honesty Guidelines (University of Florida Rule 6C1-4.017).

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. You may find the Student Honor Code and read more about student rights and responsibilities concerning academic honesty at the link www.dso.ufl.edu/scer/.

In addition, we remind you that lectures given in this class are the property of the University/faculty member and may not be taped without prior permission from the instructor 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.

Note: Information in this syllabus is subject to change. Any changes will be clearly announced through e-mail and/or on Canvas.