

MATH 2410Q Section 022

Summer 2026

Course and Instructor Information

- **Course Title:** Elementary Differential Equations
- **Credits:** 3
- **Asynchronous**
- **Office Hours / Extra Help:** Wednesday 12:00-2:00 or by appointment
- **Prerequisites:** Prerequisites: MATH 1132Q, 1152Q, or 2142Q.
- **Professor:** Dr. Kevin Kellinsky-Gonzalez (Prof. K / Dr. K)
- **Email:** kevin.kellinsky-gonzalez@uconn.edu

Course Description

Introduction to ordinary differential equations and their applications, linear differential equations, systems of first order linear equations, numerical methods.

Course Materials

Required textbooks are available for purchase through the UConn Bookstore.

Outline of topics

We will begin with basic definitions and different types of differential equations and solutions. Linear and nonlinear differential equations, exact equations, separable equations, existence and uniqueness of solutions, series, Laplace transform, delta functions, and applications will be covered.

Required Materials:

- **Textbook:** “A First Course in Differential Equations with Modeling Applications” by Dennis G. Zill (11th edition)
- We will be using Cengage/WebAssign for online homework. Please sign up with WebAssign as soon as possible. Please contact Cengage customer support if you have trouble registering for WebAssign.

I will post new homework assignments weekly. It is your responsibility to check for new assignments and to complete the homework on time.

Exam Policy

You may use a calculator on the exams. The exams will be open notes. You may not use any other resources during the exams. I expect you to show all your work and that all work is your own. I will announce the topics covered on the exams well in advance. The tentative schedule for the exams is Tuesday, July 28 and Friday, August 14, both starting at noon. If there are any changes to this schedule, I will let you know. The exams will be posted on HuskyCT and you will have 2 hours to complete the exams. Neatly write your solutions, scan them, and email them to me. You must compile all the scans into a single PDF file. I will reply to your email to confirm I received your exam. If you do not receive a reply, it means I did not receive your exam and you will not receive any credit. There are no make ups for exams. You may take an exam early, but not late. Notify me in advance if you need to take an exam early.

Summary of Course Grading

Course Components	Weight
Midterm	40%
Final Exam	40%
WebAssign HW	20%

Grading Scale:

Range	Grade
93.5–100	A
89.5–93.4	A-
86.5–89.4	B+
82.5–86.4	B
79.5–82.4	B-
76.5–79.4	C+
72.5–76.4	C
69.5–72.4	C-
66.5–69.4	D+
62.5–66.4	D
59.5–62.4	D-
0–59.4	F

Accommodations for Students with Disabilities

The University of Connecticut is committed to protecting the rights of individuals with disabilities and assuring that the learning environment is accessible. If you anticipate or experience physical or academic barriers based on disability or pregnancy, please let me know immediately so that we can discuss options. Students who require accommodations should contact the Center for Students with Disabilities, Wilbur Cross Building Room 204, (860) 486-2020 or <http://csd.uconn.edu/>.

Tips on how to learn mathematics

- Have a solid foundation. Are you comfortable with:
 - Algebra
 - Computing derivatives of well-known functions
 - Performing integration techniques such as integration by parts and partial fractions

If the answer to any of these is “no”, please attend office hours. I am more than happy to help you get caught up.

- Practice Practice Practice! Simply reading your notes is not an effective way to learn mathematics for the vast majority of people. It is essential that you redo the homework problems and the examples from class. You should do this until you can comfortably solve all of the problems from start to finish without any help.
- Don't be afraid to ask for help. I encourage everyone to form study groups with other members of the class. Check out the tutoring center - some of my former students work there! There are many great resources online such as Youtube videos. On the other hand, you should make a sincere effort to solve the homework problems on your own before seeking help. It is okay to get stuck. It is not okay to not try in the first place.

Changes to Syllabus

The information contained in the course syllabus may be subject to change with reasonable advance notice, as deemed appropriate by the instructor. If any changes are made, I will give everyone reasonable notice.