MATH 2410Q
Elementary Differential Equations

Spring 2026

Instructor:	Lingxiao Zhang	**Time:**	MWF
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Prerequisites: MATH 1132Q, 1152Q, or 2142Q. Recommended preparation: A grade of C- or better in MATH 1132Q; MATH 2110Q or 2130Q. Cannot be taken after MATH 2144Q, 2420Q, 2720, 3146, 3150, 3410, 3412, 3510, 3710. Repeat restrictions apply; see https://advising.uconn.edu/repeat-policy.

HuskyCT: https://huskyct.uconn.edu for class announcements and grade sheet.

Office Hours and Location: Monday Friday 3:20 - 4:20 pm at MONT 410. Please allow one business day for me to read your email.

Textbook: *A First Course in Differential Equations with Modeling Applications*, 12th Edition by Dennis G. Zill; ISBN-13: 978-1305965720.

Course Objectives: Qualitative, analytical and numerical methods for first and second order ordinary differential equations as well as first order constant coefficient linear system and some special nonlinear systems. Laplace transform and its application to differential equations.

Homework: Homework assignments are completed online on WebAssign (see access link on HuskyCT). See homework deadlines on WebAssign. WebAssign works better with Chrome and Firefox than Safari.

Ten lowest/missed homework sections will be dropped automatically at the end the semester.

Exams: There will be five **in-class** exam opportunities and you can choose to attend at least three of them.

- 1st Exam: February 6th Friday
- 2nd Exam: February 27th Friday
- 3rd Exam: March 27th Friday
- 4th Exam: April 17th Friday
- 5th Exam: May 1st Friday

Two lowest/missed exams will be dropped automatically at the end the semester.

Grading Policy: Webassign Homework (25%) Highest three Exams (75%)

Late Policy:

- No makeup/extension/more attempts/alternative times for homework or exams.
- 10 lowest/missed homework sections and 2 lowest/missed examas will be dropped automatically at the end the semester.
- The 10 homework section drops and 2 exam drops should be saved for emergencies/sickness/appointments/accidents/funerals/power out/car broke down/miss the bus/hurry to class from a far place/have to leave early/have another two exams back to back/have a competition/conference... It is not recommended that you wait until last day to finish your homework. The current deadline that you see on

webassign is already been postponed by me. So you should view the deadline of the homework to be a couple days before the written deadline of webassign, and the written deadline of webassign as been extended already.

Disability Services: If you have a physical, psychological, medical, or learning disability that may impact your coursework, please contact the Center for Students with Disability http://www.csd.uconn.edu, especially when you need to accommodate the exams. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

Accommodations for Illness or Extended Absences: If you are experiencing illnesses or hardships for a long time and have to **miss one extra the exam** (i.e. miss 3 exams), please contact the instructor as soon as possible so that we can find a way to accommodate you.

Please bear in mind that every course has finite capacity to accommodate students. To be fair to the rest of the students, the type of accommodation provided to you might not be exactly the way you prefer. It is hard to accommodate you if you miss two or three extra exams (i.e. miss 4 or 5 exams), and in that case please talk with your academic advisor.

Useful resources:

- **If you have issues with Webassign:** https://www.cengage.com/coursepages/UConn_MATH2410.
  - Webassign Office Hour: See the link above.
  - Webassign Contact: Frank Cronin, Senior Account Executive II
    203-599-5100 frank.cronin@cengage.com
- **The Quantative Learning (Q) Center:** The Q Center is a place on campus where there are knowledgeable people hanging around waiting for you to come by and ask for help with problems you are having with Q courses. Some students find it helpful to use up a couple of their tries at a problem on WebAssign homework and then visit the Q center for help with the problem, before going back to their homework. Tutoring is provided in the Q Center located in Homer Babbidge Library. Please visit the website https://qcenter.uconn.edu/ for more details and hours.

Academic Integrity: Integrity is a crucial part of the academic experience. You must observe the University's Academic Integrity Policy at https://community.uconn.edu/the-student-code-appendix-a/. Cheating can result in one or more of the following: a score of zero on the assignment; a grade of F in the course; expulsion from the university and/or any subsidiary programs.

Policy Against Discrimination, Harassment and Related Interpersonal Violence: The University is committed to maintaining a safe and non-discriminatory learning, living, and working environments for all members of the University community - students, employees, or visitors. More information, including confidential and exempt employee resources available for support and assistance, can be found at https://equity.uconn.edu and https://titleix.uconn.edu.

Syllabus Revision: The instructor reserves the right to make any changes in this syllabus at any time. Notice of such changes will be by announcement in class and changes to this syllabus will be posted on HusckyCT. It is your responsibility to keep up with changes.

Tentative Schedule

Week of 1/20	Lecture of Sections 1.1, 1.2, 1.3
Week of 1/26	Lecture of Sections 1.3, 2.1, 2.2 Homework of 1.1, 1.2 due on Wednesday
Week of 2/2	Lecture of Section 2.2, Review on Wednesday 1st Exam on Friday Homework of 1.3, 2.1 due on Wednesday
Week of 2/9	Lecture of Sections 2.3, 2.4, 2.5 Homework of 2.2 due on Wednesday
Week of 2/16	Lecture of Sections 2.5, 2.6, 3.1 Homework of 2.3, 2.4 due on Wednesday
Week of 2/23	Lecture of Section 3.2, Review on Wednesday 2nd Exam on Friday Homework of 2.5, 2.6, 3.1 due on Wednesday
Week of 3/2	Lecture of Sections 3.3, 4.1, 4.3 Homework of 3.2 due on Wednesday
Week of 3/9	Lecture of Sections 4.4, 4.6 Homework of 3.3, 4.1, 4.3 due on Wednesday
Week of 3/16	Spring break

Week of 3/23	Lecture of Sections 5.1, Review on Wednesday 3rd Exam on Friday Homework of 4.4, 4.6 due on Wednesday
Week of 3/30	Lecture of Sections 7.1, 7.2 Homework of 5.1 due on Wednesday
Week of 4/6	Lecture of Sections 7.3, 7.4 Homework of 7.1, 7.2 due on Wednesday
Week of 4/13	Lecture of Appendix B.1, Review on Wednesday 4th Exam on Friday Homework of 7.3, 7.4 due on Wednesday
Week of 4/20	Lecture of Appendix B.3, 8.1 Homework of B.1 due on Wednesday
Week of 4/27	Lecture of Section 8.2, Review on Wednesday 5th Exam on Friday Homework of B.3, 8.1 due on Wednesday
Week of 5/4	Homework of 8.2 due on **Monday**

- It is the Department of Mathematics that decides what is covered in this course.
- This course does not have discussion sessions.