MATH 2410Q Section 001
Elementary Differential Equations

Fall 2023

Instructor:	Lingxiao Zhang	**Time:**	MWF 10:10 – 11:00
Email:	lingxiao.zhang@uconn.edu	**Classroom:**	FSB 216

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 1 - 2 pm, or by appointment, at MONT 410.

Textbook: *A First Course in Differential Equations with Modeling Applications*, 11th 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 will be posted and completed online on WebAssign (access through HuskyCT).

Exams: There will be two **in-class** midterms tentatively in week 6 and week 10, and a take-home final exam which is due one week after posted.

Quizzes: There will be a quiz in each Friday's class, except for the first week and the exam weeks. Each quiz consists of one or two short problems covering the content of the previous week, and takes 10-15 minutes.

Grading Policy:

- Webassign Homework (15%)
- Quiz (20%)
- 1st Midterm Exam (25%)
- 2nd Midterm Exam (25%)
- Take-home Final Exam (15%)

Late Policy:

- Each student can request at most one homework extension.
- No makeup for quizzes, or exams. Two lowest (or missed) quiz grades will be dropped at the end the semester. Please save these two drops for emergency situations such as illnesses.

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 need more than one homework extension and two quiz drops or have to miss one of the exams, please contact the instructor as soon as possible so that we can find a way to accommodate you.

Useful resources:

- **Set up Webassign:** https://www.cengage.com/coursepages/UConn_MATH2410.
- **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 HuskyCT. It is your responsibility to keep up with changes.