# MATH 2410Q-020 - Differential Equations
# Summer 2 - 2024

**Instructor:** Blake Jackson **Email:** blake.jackson@uconn.edu
**Office:** MONT 406
**Office hours:** By appointment, in person or virtually
**Classroom:** -
**Class Time:** Asynchronous online
**Text:** *A First Course in Differential Equations with Modeling Applications*, 11th ed., Dennis G. Zill

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Welcome to MATH 2410Q! The goal of this course is to arm you with techniques to help you solve ordinary differential equations. If you don't know what those are, they are just equations involving a function (of a single variable), say $y = f(x)$, and its derivatives, $y', y'', ....$ The goal is to solve the differential equation for the unknown function $y$. We will cover techniques to help you solve differential equations of various forms.

**Prerequisites:** MATH 1132Q, 1152Q, or 2142Q. If you do not have the prerequisites for this class met by the time the semester starts, you will need to withdraw from the course.

**Homework:** Homework will be submitted via WebAssign, which is accessible via HuskyCT. **I will drop your lowest 3 homework grades.** These assignments are meant to be low-stakes and meant to help you prepare for the exams. That is to say, if you want to copy answers from a friend or the internet, it will not benefit your grade in the way you think it will (i.e. the 80% from your exam grades will suffer, but your 20% homework grade will be fantastic). Please take these assignments as an opportunity to learn, rather than an opportunity to improve your grade.

**Exams:** You will have three exams (50% of your final grade, about 17% of your grade each) and a cumulative final (30%). The exams will tentatively be taken in a virtual meeting on Wednesdays 7/17, 7/24, and 7/31. The exam times are TBD. The final exam details are TBD.

**Exam Grades:** Since the exams are weighted heavily, I will replace your lowest midterm exam grade with your final exam grade if it is higher. If your final exam is lower than all of your midterm exam grades, nothing will happen. For example, if you score 90 on Exam 1, 45 on Exam 2, 70 on Exam 3, and 75 on the Final Exam, I will replace the Exam 2 grade with a 75. **I will never lower your grade by replacing a midterm exam grade with your final exam grade.**

**Absences and Make-ups:** If you are sick and there is an exam that day, send me an email as soon as you know that you can't make it and we will schedule a make-up for you. My make-up policy is that you can make up any exam you missed within one week of returning from your absence.

**Point Distribution:**

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|---|---|
| Homework | 20 percent |
| Three Exams | 50 percent |
| Final Exam | 30 percent |

The grading scale used will be 93%+ A, 90-92.99 A-, 87-89.99 B+, 83-87.99 B, etc.

**Grading Appeals:** It's impossible to grade everything perfectly, so grading mistakes are inevitable. If you think something was graded unfairly, please ask me about it.

**Text:** The textbook for the course is "A First Course in Differential Equations with Modeling Applications" by Dennis G. Zill (11th edition). The textbook comes bundled with an access code for WebAssign, which we will use to complete online homework. If you have taken a Calculus course at UConn previously (1131Q, 1132Q, and/or 2110Q), then you likely already have access and don't need to do anything. If not, you can buy the bundle for $120 at the bookstore. You can also get Cengage Unlimited for $120 if you have other Cengage courses and/or don't want a physical book.

**Outside Resouces:** The UConn Q Center is an excellent resource (free of charge!) if you need help with math concepts in homework assignments: http://qcenter.uconn.edu. However, it is not guaranteed that a tutor will be able to assist you with MATH 2410Q homework, you should ask before you go if there are any tutors who can help you. Another option is to form study groups with your classmates or others who are currently taking MATH 2410Q.

**Policy Against Discrimination, Harassment, and Related Interpersonal Violence:** The University is committed to maintaining an environment free of discrimination or discriminatory harassment directed toward any person or group within its community â students, employees, or visitors. Academic and professional excellence can flourish only when each member of our community is assured of an atmosphere of mutual respect. All members of the University community are responsible for the maintenance of an academic and work environment in which people are free to learn and work without fear of discrimination or discriminatory harassment. In addition, inappropriate amorous relationships can undermine the Universityâs mission when those in positions of authority abuse or appear to abuse their authority. To that end, and in accordance with federal and state law, the University prohibits discrimination and discriminatory harassment, as well as inappropriate amorous relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. Additionally, to protect the campus community, all non-confidential University employees (including faculty) are required to report sexual assaults, intimate partner violence, and/or stalking involving a student that they witness or are told about to the Office of Institutional Equity. The University takes all reports with the utmost seriousness. Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with University officials who can help. More information is available at equity.uconn.edu and titleix.uconn.edu.

**Students with Disabilities:** The University of Connecticut is committed to protecting the rights of individuals with disabilities and ensuring 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 (CSD), Wilbur Cross Building Room 204, (860) 486-2020 or http://csd.uconn.edu/.

*Note: The instructor reserves the right to make adjustments to this course.*