

George Mason University
Math 214 - 001
Elementary Differential Equations

Instructor: Trey Andreani
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Office: Exploratory Hall 4407

Class Time: TR 7:30-8:45 AM
Room: Enterprise Hall 178
Office Hours: TR 9:00 - 10:00 AM

Prerequisite: C or better in MATH 213 or MATH 215.

Description: We will cover first-order ODEs, higher-order ODEs, Laplace transforms, linear systems, nonlinear systems, numerical approximations, and modeling.

Text: Boyce and DiPrima, Elementary Differential Equations 11th Edition. (ISBN: 9781119169741)

Technology: No calculators will be allowed at any point in the course. No phones, tablets, laptops, etc. will be allowed in the classroom. If you violate this policy you will be asked to leave, and will receive a zero on any of that day's assignments.

Homework: Homework will be assigned at the end of each class. Completing the homework assignment is the bare minimum of work you should be doing outside of class. Additional problems are available for those who would like extra practice. Homework will not be collected, but completing it is essential to passing the course.

Quizzes: There will be a quiz each week during recitation based on the previous week's homework assignments. I will drop your two lowest quiz scores at the end of the semester. There will be no make-up quizzes under any circumstances.

Mathematica: Mathematica is a computer algebra system, and is free for students to use on personal computers or in computer labs. Instructions for downloading and installing Mathematica on personal computers are available at <https://cos.gmu.edu/mathematica>.

Exams: There will be three exams during the course. You may not leave the classroom during an exam for any reason. Please come to class prepared. Make-up exams will only be given for extreme circumstances, must be accompanied by official documentation, and I must be notified in advance.

Final Exam: The final exam will be cumulative. The date and time are set by the university, and are non-negotiable.

Grading:

Quizzes - 10% Mathematica - 10% Exams - 15% x3 Final Exam - 35%

Academic Integrity: Violations of the honor code will not be tolerated.

Student members of the George Mason University community pledge not to cheat, plagiarize, steal, or lie in matters related to academic work.

Tutoring Center: The Mathematics Tutoring Center is located in the Johnson Center room 344. Please see the website for hours of operation.

<http://math.gmu.edu/tutor-center.php>

Important Dates:

Classes Begin - January 21

Last Day to Drop with no Tuition Penalty - February 5

Last Day to Drop - February 11

Final Exam - May 12 7:30 - 10:15 AM

Schedule: (Subject to Change)

Week Beginning On	Monday	Wednesday
1/21	1.1, 1.2	1.3, 2.1
1/27	2.2	2.3
2/3	2.4, 2.5	2.5, 2.6
2/10	2.7, 2.8	2.8, 2.9
2/17	3.1, 3.2	3.2, 3.3
2/24	Exam 1	3.4
3/2	3.5, 3.6	3.6, 3.7
3/9	<i>Spring</i>	<i>Break</i>
3/16	4.1	Exam 2
3/23	4.2, 4.3	4.3, 4.4
3/30	6.1, 6.2	6.2, 6.3
4/6	6.4, 7.1	7.1, 7.2
4/13	Exam 3	7.3
4/20	7.4, 7.5	7.5, 7.6
4/27	7.7, 7.8	7.8, 7.9