Final exam. Tuesday, December 15, 8–10am.

Course description and prerequisites.

Description. (3 credits) Ordinary differential equations, solutions in series, solutions using Laplace transforms, systems of differential equations.

Prerequisites. MATH 251 or equivalent; knowledge of computer algebra system.

Learning outcomes. This course is to provide students with quantitative and problem-solving skills for first order, linear second order, and systems of linear differential equations. At the conclusion of this course, students should be able to:

- Understand the concepts of solution, initial value problem, and direction field.
- Solve first order linear differential equations.
- Solve second order homogeneous and non-homogeneous linear ODEs.
- Solve systems of linear equations.
- Derive qualitative behavior of solutions of nonlinear ODEs.
- Understand and apply basic numerical methods for approximating solutions.

Textbook.


Course website. The course website is http://www.math.tamu.edu/~dbaskin/math308-fall15/.

Homework. You will have assignments to complete on a regular basis. The assignments will be posted on the course website at http://www.math.tamu.edu/~dbaskin/math308-fall15/. You do not have to turn in your homework but it is highly recommended to work them out carefully because the material for the quizzes will be taken from them.

Quizzes. You will have 10 short graded assignments assignments to complete. They will typically be given on Wednesdays at the end of class. Material for the quizzes will typically be taken from the homework. The two lowest quiz grades will be dropped. Quizzes may only be made up with a valid University excused absence if more than two are missed. I understand there are many other valid reasons for missing class and possibly a quiz, and that is why the two lowest quiz grades will be dropped when your grade is calculated.

Grading policies. There will be two in-class exams on October 9 (covering chapters 1, 2, and 3) and November 13 (covering chapters 6 and 7), as well as a final exam.

The final grade is calculated as follows:

\[
\text{Final grade} = 50\% (\text{First + Second in-class exams}) + 35\% (\text{Final exam}) + 15\% (\text{Quizzes})
\]

Your grade will be A, B, C, or D, for 85%, 75%, 65%, or 55%, respectively. Below a 55% earns an F in the course.
Class policies.

Attendance. It is in your best interest to attend lectures.

Calculators. No calculators on in-class quizzes or exams! We may have some quizzes and homework problems where you are allowed and expected to use MATLAB.

Cell phones. Please do not use your phone during class. Phones and all electronic devices should be turned off during exams.

Make-up/late work. Make-up work is allowed only when written evidence of an official University excused absence is provided (see Section 7.1 of the student rules at http://student-rules.tamu.edu/rule07). If a student will miss an in-class exam, notification in writing (acknowledged e-mail is acceptable) prior to the date of absence is required. In cases where this is not feasible, the student must provide documentation by the end of the second working day after the absence. If these conditions are met, then, at the discretion of the instructor, one of the following two possibilities will occur:

1. a make-up exam will be administered by the math department, or
2. the percentage grade earned on the final exam will be substituted for the missed exam.

No make-up quizzes will be given, as the lowest quiz grades will be dropped. In the case of a University excused absence on a day when a take-home quiz is due, please contact the instructor and make arrangements to turn in the quiz.

Americans with Disabilities Act (ADA) policy statement. The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for a reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services Office, Department of Student Life, in Room B118 of Cain Hall.

Academic integrity statement and policy. Scholastic dishonesty will not be tolerated. Aggie Honor Code: An Aggie does not lie, cheat, or steal or tolerate those who do. Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students may be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. For additional information, visit http://aggiehonor.tamu.edu.

Additional resources.

Help sessions. Math Department help sessions are an opportunity to ask questions and get help with your homework. A link to the schedule for fall help sessions will be posted on the class website when it is available. You can come at any point during the help session and leave whenever you want.