

Instructor: Dr. Mariya Vorobets

Class hours: MTWRT 12:00 – 1:35 in RICH 114

Web page: <http://math.tamu.edu/~mvorobet/Math308/Summer18/>

Office: BLOC 223A, e-mail: mvorobet@math.tamu.edu

Office hours: MTWRT 10:30 – 11:30, or by appointment

Course Description: Ordinary differential equations, solutions in series, solutions using Laplace transforms, systems of differential equations. Prerequisites: MATH 251 or equivalent; knowledge of computer algebra system.

Course Objectives: This course is to provide students with quantitative and problem-solving skills of differential equations. At the conclusion of this course, students should be able to:

- Solve basic first order ODE.
- Solve higher order linear ODE and systems of linear ODEs
- Be able to construct simple ODE models (linear and non-linear)
- Be able to conduct qualitative analysis of ODE models.

Text: (required) Elementary Differential Equations, by Boyce and DiPrima, 10th ed., Wiley, ISBN 978-0-470-45832-7.

Course Web Page: The course web page will be my main source of communication to you aside from class and office hours. Check the course page regularly for announcements, exam information and the course schedule.

The Mathematics Department has a web-page for Math 308

<http://www.math.tamu.edu/courses/math308/>

Email Policy: Check your official TAMU email account regularly. You are responsible for any information I send via email. Because of the privacy rights, I cannot discuss grades via email or over the phone. Please include your name and the section number in the subject line.

Topics covered: This is a course in differential equations. Topics include linear ordinary differential equations and systems of linear differential equations, second order linear equations, solutions using Laplace transforms, numerical methods.

Quizzes: In-class quizzes will be given almost every day. All of them are mandatory, although, the lowest grade will be dropped at the end of the semester. Problems will be selected from the list provided here

<https://www.math.tamu.edu/courses/math308/308currenthw.html>

Make up quizzes will be provided if you have written evidence of an official University excused absence (see University Student Rules) AND contact me NO LATER than the second working day after the quiz to schedule a make-up quiz (See University Student Rules).

Examinations: Your grade will be determined by quizzes, two midterms, and a cumulative final exam.

The *tentative* midterms dates are: Exam I – July 13, Exam II – July 27.

The *final* exam is scheduled for August 7 at 1:00 – 3:00 in RICH 114.

No collaboration on the midterms and on the final is allowed. The use of books, cell phones or notes of any sort during exams is not permitted.

Grading Policy:

EXAM I = 25%, EXAM II = 25%, Quizzes = 20%, FINAL EXAM = 30%.

I may curve any grade and will then compute the course grade by the following rule: A for 90 – 100%, B for 80 – 89%, C for 70 – 79%, D for 60 – 69%, and F for 0 – 59%.

Weekly schedule: The (tentative) weekly schedule is posted on the MATH 308 course homepage at

<http://www.math.tamu.edu/courses/math308/308currentsched.html>

Help Sessions: The Mathematics Department offers help sessions for Math 308 students. See

<http://www.math.tamu.edu/courses/helpsessions.html> for schedule and more information.

Make-up Policy:

- No make-ups will be given without written evidence of an official University excused absence (see *University Student Rules*). In addition, you must notify me **NO LATER** than the end of the second working day after the missed assignment.
- In the case of injury or illness, students are required to obtain a confirmation note from a health care professional affirming date and time of a medical office visit regarding the injury or illness.
- Make-up exams will be only allowed due to excused absences and the next possible make-up time be chosen from <http://www.math.tamu.edu/courses/makeupexams.html>

Late Work Policy: Late work (for which you do not have a University approved excused absence) will NOT be accepted. This includes all written and online assignments.

Scholastic Dishonesty: Copying work done by others, either in-class or out-of-class, is an act of scholastic dishonesty and will be prosecuted to the full extent allowed by University policy. Collaboration on assignments, either in-class or out-of-class, is forbidden unless I grant permission. If you cheat on an assignment, you will receive a zero. Also, you will be reported to the University.

Remember the Aggie Code of Honor:

“An Aggie does not lie, cheat, or steal or tolerate those who do.”

For more information about the Honor Council Rules and Procedures visit the web site:

<http://www.tamu.edu/aggiehonor>

Copyright notice: All course materials (both printed and web-based) are protected by U.S. Copyright Laws. No multiple copies can be made without written permission by the instructor.

Students with disabilities: 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 reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit <http://disability.tamu.edu>.