

MATH 280: Applied Differential Equations, Summer 2014

Summer 2014 Class number 10632 MTWTh 4:00–5:40pm Room CR5114

Prof. Vladislav Panferov

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Office hours: (tentative, subject to change) Tue, Thu 11:15–1:15pm, other times by appointment.

Course description: Basic concepts of differential equations; particular and general solutions, initial-value problems. Analytical techniques for solving certain types of differential equations. Series solutions; ordinary and singular points. Higher-order linear equations and linear systems. Introduction to numerical techniques of solving differential equations. Applications and modeling.

MATH 280 WEBPAGE www.csun.edu/~panferov/math280/

Text: A First Course in Differential Equations with Modeling Applications, by D. G. Zill, 10th edition, Brooks/Cole, 2013. Textbook is mandatory; exercises from the book will be used for homework assignments. Tentative coverage is most of Chapters 1–6 and selected topics from Chapters 8 and 9. You are expected to work on your own through all the sections of the textbook covered in class, before or/and after the class meetings.

Homework/Quizzes: Homework will be assigned from the textbook; homework problems will not be collected or graded, however selected problems from the homework will be included in quizzes (15 minutes, held in the beginning of class and announced in advance). Answers/solutions to selected problems will be made available on the webpage.

Exams: There will be two in-class midterms, tentatively scheduled for **July 24** (Thursday) and **August 12** (Wednesday) – possible changes in schedule will be announced in class. There will be a comprehensive final exam on **Tuesday, August 19, 4:00–5:40pm** in **CR 5114**. All tests/exams are closed books/notes. (See below for the calculator policy.)

Make-up policy: Make-up quizzes/tests/exams are not normally given; you will need a doctor's note if you have to miss the day of the quiz/test for medical reasons.

Electronic devices: Only a basic scientific calculator (example: TI-30XIIS) is allowed on all quizzes, tests and exams. Graphing calculators and other electronic devices, including cell phones, are not permitted. Cell phones must be **off** (not on silent or airplane mode!) during class time.

Grading: Your grade will be determined from the weighted average computed as follows:

homework/quizzes	20%
2 in-class exams	22.5% each
final exam	35%

If the final exam score is over 70%, the relative weight of the final may be increased to 57.5% to compensate for one lower midterm score.

The following is a tentative scale for translating the averages into letter grades: 90–100% A; 80–89% B, 70–79% C, 60–69% D, 0–60% F. The indicated ranges include “+” and “–” grades. The cutoff numbers for the grades may be modified (in the direction of decreasing only!) at the end of the term, based on the overall performance of the class.

Attendance and participation – are required for successful performance in the class. A roster will not be taken in class, but I expect to see you in class on a regular basis and participate by asking and answering questions.