

Math 2243 Syllabus Fall 2001

Lecturer: Mark de Longueville, Vincent Hall 260, 625-2036

e-mail address: delongue@math.umn.edu

Time and Location: 11:15–12:05 MWF, 1701 Univ 143

Course web address:

<http://www.math.umn.edu/delongue/math2243/math2243.html>

Here you will find the syllabus, information about the recitation sections, the current homework, and the current section that was covered in class. However, I strongly recommend to attend the class physically.

Office Hours: 1:30–2:30 Mon, 10:00–11:00 Tue, 1:30–2:30 Wed, and by appointment

Recitation sections: Sangwook Kim, Office VinH 550, Phone 624-2838:

- Dis021 11:15-12:05 TTh 1701 Univ 3
- Dis023 12:20-01:10 TTh 1701 Univ 108

Pang-Yen Weng, Office VinH 360, Phone 625-4392:

- Dis022 11:15-12:05 TTh VinH 6
- Dis024 12:20-01:10 TTh Arch 56.

Text: Stephen W. Goode, *Differential Equations and Linear Algebra*, Second edition, 2000, Prentice Hall

Course description: The course is a four credit course with two recitations per week. Prerequisites: C- in Math 1272, or 1372. The course will cover the following topics: Linear algebra: matrices, Gaussian elimination, determinants, vector spaces and subspaces, linear dependence, dimension, eigenvectors and eigenvalues, diagonalization. Ordinary Differential Equations (ODEs): Separable and first order linear equations, second order linear equations with constant coefficients, linear systems of ODEs with constant coefficients, phase plane analysis.

Grading: Your grade will be determined by the following weights:

- quizzes 15%,
- three midterms à 15% each, total of 45%,
- final exam 40%.

Final exam: The final exam is a common exam for all sections of Math 2243; it will be given on *Monday, December 17, from 1:30 pm to 4:30 pm.*

You will not be allowed to take the final exam at any other time. Your grade for the class will depend on how your score in the final exam compares with the scores of the students from all sections.

Schedule of midterm exams: The midterm exams will be given in your recitation sections, according to the following schedule (subject to change):

- Exam I: Thursday, October 4,
- Exam II: Thursday, November 8,
- Exam III: Thursday, December 6.

Quizzes: There will be 12 short quizzes (no quiz the first and last week of the semester, and Thanksgiving week) given on Tuesdays in the recitation sections; the 2 lowest quiz scores will be dropped. Each quiz will cover the material discussed in class during the preceding week.

Homework: Homework will be assigned weekly, but it will be neither collected, nor graded. A list with the assignments can be found by following the homework link in the course home page. The quizzes and midterm exams will consist of problems similar to the ones assigned as homework. If you don't do your homework on a regular basis you should expect to do poorly in the course.

Absence from exams: Missing a mid-term exam is permitted only for the most compelling reasons. You should obtain my permission in advance to miss an exam. Otherwise you will be given a 0. If you are excused from taking an exam, extra weight will be given to the final exam. Except in extraordinary situations, all students missing the final exam will fail the course. There will be no make ups for missed quizzes.

Drop dates: The last day to drop the course without permission is October 29; if you drop the course before the end of the second week of the semester, no mention of this course will appear on your transcripts. Otherwise, you will receive a "W" for the course.

Official University Grading Standards:

- A** achievement that is outstanding relative to the level necessary to meet course requirements.
- B** achievement that is significantly above the level necessary to meet course requirements.
- C** achievement that meets the course requirements in every respect.
- D** achievement that is worthy of credit even though it fails to meet fully the course requirements.
- S** The minimal standard for S is to be no lower than C-. The instructor or department must inform the class of this minimal standard at the beginning of the course.
- F** (or **N**) Represents failure (or no credit) and signifies that the work was either (1) completed but at a level of achievement that is not worthy of

credit or (2) was not completed and there was no agreement between the instructor and the student that the student would be awarded an I.

I (Incomplete) Assigned at the discretion of the instructor when, due to extraordinary circumstances, e.g., hospitalization, a student is prevented from completing the work of the course on time. Requires a written agreement between instructor and student.

Official University Statement on Academic Dishonesty: Academic dishonesty in any portion of the academic work for a course shall be grounds for awarding a grade of F or N for the entire course.

Official University Statement on Credits and Workload Expectations: For undergraduate courses, one credit is defined as equivalent to an average of three hours of learning effort per week (over a full semester) necessary for an average student to achieve an average grade in the course. For example, a student taking a three credit course that meets for three hours a week should expect to spend an additional six hours a week on coursework outside the classroom.

Explanation on Incompletes, S/N: The grade “I” is assigned only when a student has satisfactorily (a C grade or better) completed all but a small portion of the work for the course, and has made prior arrangements to complete the work. This means, for example, if you quit attending class after the first exam, and then request an “I” in the eighth week, your request will be denied. You will fail the course. To get an S for this course you must obtain a grade of at least C-.

Scholastic Conduct: Each student should read his/her college bulletin for the definitions and possible penalties for cheating. During the exams you must do your own work. Students suspected of cheating will be reported to the Scholastic Conduct Committee for appropriate action.