SYLLABUS
Math 2243
Linear Algebra and Differential Equations
Fall 2014

Lecturer: Professor Gennady Lyubeznik
Office: Vincent Hall 259
Telephone number: 624 – 7014
e-mail address: gennady@math.umn.edu

Recitation Instructors: Lindsey C. Hitner
Office: 555 Vincent Hall
Telephone number: 624-2527
e-mail address: hiltn010@umn.edu

______________________Benjamin Feigenbaum
Office: 428 Vincent Hall
Telephone number: 625-9031
e-mail address: feige007@umn.edu

______________________Pak Yeung Chan
Office: 360 Vincent Hall
Telephone number: 625-4392
e-mail address: chanx305@umn.edu

______________________June Park
Office: 454 Vincent Hall
Telephone number: 624-3531
e-mail address: junepark@umn.edu

______________________Analise Rodenberg
Office: 522 Vincent Hall
Telephone number: 624.4143
e-mail address: rode0110@umn.edu

Office hours: M 12:25 – 01:15, Th 01:25 – 02:15 (Gennady Lyubeznik)

Course content: This course consists of two related parts, linear algebra (matrices, determinants, Gaussian elimination, vector spaces, eigenvalues, diagonalization) and ordinary differential equations (linear equations, Wronskian, solution by eigenvalues and eigenvectors). We will cover most of chapters 1, 2, 3, 4, 5, 6, 7 and 10.


Homework: Homework will be assigned in class every day and the assignment will be posted on the course page. Homework will not be collected and graded. Yet doing homework is absolutely indispensable for success in the course. Problems on quizzes and exams will be very similar to the homework problems.

Quizzes: A quiz will be given every Tuesday starting September 9. It will be based on the homework assigned during the preceding week. You cannot make up a quiz. Two lowest quiz scores will be dropped.

Exams: There will be three midterm exams on Thursdays, October 2, October 30 and November 27. There will be a final exam on Friday, December 12, 1:30 - 4:30pm, room to be announced.

Make up exams: Will be allowed only under truly exceptional circumstances. You must notify the lecturer, not the TA, at least a week in advance.

Calculators: Basic scientific calculators are allowed in exams and quizzes. These are calculators that can evaluate trigonometric, exponential and logarithmic functions. Graphing calculators or calculators that can do symbolic manipulations will not be allowed during exams and quizzes.

Final grade: Quizzes count for 25%, each of the midterm exams for 15%
and the final exam for 30%.

**Lecture 020:** MWF 11:15 - 12:05pm FraserH 102  
**Recitation sessions:** TuTh 10:10 - 11:00 PeikH 375, Instructor: Pak Yeung Chan  
TuTh 10:10 - 11:00 VinH 1, Instructor: Lindsey C. Hitner  
TuTh 10:10 - 11:00 LindH 203, Instructor: Analise Rodenberg  
TuTh 11:15 - 12:05 VinH 2, Instructor: Analise Rodenberg

**Lecture 030:** MWF 02:30 - 03:20pm FraserH 102  
**Recitation sessions:** TuTh 02:30 - 03:20 FordH B29, Instructor: June Park  
TuTh 02:30 - 03:20 LindH 229, Instructor: Pak Yeung Chan  
TuTh 02:30 - 03:20 NichH 335, Instructor: Benjamin Feigenbaum  
TuTh 03:35 - 04:25 VinH 207, Instructor: June Park