Instructor: Martin Kassabov  
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Office: 537 Malott  
Office Hours: TBA  
Web page: http://www.math.cornell.edu/~kassabov/math4310/  

Lectures:  
Section 1: MWF 12:20 – 1:10pm in 224 Malott Hall  
Section 2: MWF 1.25 – 2.15pm in 224 Malott Hall  

TA: Shihao Xiong  
Email: sx76@cornell.edu  
Office Hours: TBA  

Textbook: The course text book is Linear Algebra, by Larry Smith. Electronic version of the textbook is available for free through Cornell Library. Please take 15 or 20 minutes before each lecture to read the sections of the books that will be covered. It helps to be familiar with the terminology we will use and the theorems that we will discuss. The course will cover a few topics which are not in the textbook.  

Homework: There will be weekly problem sets over the course of the semester. Most homework assignments will contain a ‘review’ portion where you will be asked to state a definition covered in class, provide an example and a non-example and state and proof a theorem of your choice. You can not use any of the examples from the textbook (but small modifications are OK) but are allowed to use proofs from the textbook, provided that you rephrase them.  

Problem sets will be handed out most Wednesdays, and will be due the following Monday in class. You may work together on your assignments, and you are encouraged to do so. However, you must write up your final solutions by yourself. Your work must be written neatly and legibly. Proofs should be written in complete English sentences. Your homework score will be determined not only by the correctness of the responses, but also by the correctness of the grammar.
Lowest problem set grade will be dropped when computing your final homework grade.

**Homework 1** - Due Monday January 29th: Section 2 (page 22), problems 8, 9, 10, 11. Give a definition a vector space, and provide

**Exams:** There will be two in class prelims and a final exam. The first prelim will be around March 7th; the second one will be around April 9th. The final exam will be in on May 17th.

**Grading policy:** The components will be weighted in the following way:
- Problem sets – 30%,
- Prelim I - 20%,
- Prelim II - 20%,
- Final exam - 30%.

If you have questions about homework, exams, or grades, please come talk to me during my office hours or send me email.

**Academic integrity:** As always, you are expected to abide by the Cornell Code of Academic Integrity. This states, A Cornell student’s submission of work for academic credit indicates that the work is the student’s own. All outside assistance should be acknowledged, and the student’s academic position truthfully reported at all times.