

**Stanford University Mathematics Department**  
**Math 51H, Autumn 2015**

**General:**

Math. 51H is designed to give a rigorous freshman introduction to linear algebra and multivariable analysis.

**Course Content:**

A tentative schedule for the entire quarter can be found at <http://www.stanford.edu/class/math51h/51h-schedule.html>

**Lectures:**

Mon, Tue, Wed, Thu 9:30-10:20 in room 380-380C, beginning Monday September 21.

**From Wednesday, September 23, we start the class at 9:25am (and end at 10:15)**

Class meets with the TA for a problem/review session at the same time & location on Friday of each week.

In addition, there will be optional additional meetings with the TA on Tuesdays at 4:30pm, Room 380F, during the first part of the course to provide help with proofwriting. Exception: during the first week of classes, the optional meeting with the TA is on Thursday at 4:30pm, Room Hewlett 101.

**No proofwriting section on Tuesday, Oct 13, due to midterm; instead TA will have regular office hours for last minute questions.**

**Text:**

"An introduction to multivariable mathematics" by Leon Simon (Required) Note: An electronic version (pdf eBook) is provided by the publisher at <http://www.morganclaypool.com/doi/abs/10.2200/S00147ED1V01Y200808MAS003> (no charge to Stanford students-SUNet ID required; you will also be able to use this link when you are off-campus, but for that you first need to configure your browser as described in <http://www-sul.stanford.edu/apcproxy/index.html>)

**Web-page:**

<http://www.stanford.edu/class/math51h/> (Should also be accessible from <http://math51h.stanford.edu>)

All homework and course announcements (including for example solutions to homework problems and exams) will be accessed via this page.

**Homework:**

Homework will be assigned on the web-page each Friday, and will be due on the following Friday at the TA section with the exception of the first problem set, which is due on Monday, September 28, in lecture. In all there will be 10 homework assignments, with 2 problem sets being due on the second week (on Monday and Friday, respectively). The first homework will be posted on Sunday September 20 at: <http://www.stanford.edu/class/math51h/homework/homework1.pdf>

**Note:** The homework problems form an integral part of the course; they are easily the most reliable check of your progress in assimilating the material in a manner which is sufficiently deep to allow you to solve problems which are at least one level removed from routine application of definitions and formulae. While it is quite O.K. (and even encouraged) for you to discuss the problems in general terms with your peers, it is expected that what you hand in is your own work, and not a joint project of several people; i.e. you may NOT systematically work together with others on the homework problems, and such behavior would constitute a violation of the [Honor Code](#)

**Exams:**

**Mid-term Exam 1:** Tuesday, October 13, 7-8:15pm in 380-380C

**Mid-term Exam 2:** Tuesday, November 10, 7-8:15pm in 380-380C

**Final Examination:** Monday, December 7, 7:00-9:00pm, room TBA

The make-up time for the mid-terms is available only for students who have a clash with or some other class AND BY PRIOR ARRANGEMENT. Other make-up times for the mid-terms will be available only in exceptional circumstances AND BY PRIOR ARRANGEMENT; if you think such exceptional circumstances apply to you, you should email the instructor ([andras@math](mailto:andras@math)) immediately, setting out the details of why you cannot take one or both of the mid-term exams at the scheduled time.

The final examination time (7:00-9:00pm on Monday December 7) is officially scheduled by the Registrar's Office, and cannot be varied.

**Announcements:**

You should routinely check the "current announcements" on the home-page, since this provides you with the latest information relating to any aspects of the course (e.g. corrections to homework, arrangements for mid-terms, notes or corrections concerning material covered in the lectures, etc.).

**Grading:**

|             |     |
|-------------|-----|
| Mid-term 1: | 25% |
| Mid-term 2: | 25% |
| Homework:   | 15% |
| Final Exam: | 35% |

**Honor Code:**

Please be sure you are aware of the requirements of the [Stanford Honor Code](#) and your responsibilities under the code.

