

Department of Mathematics  
University of Toronto  
Spring 2005  
MAT337H1S  
Introduction to Real Analysis  
MWF 12-1, in SS1070 (Sidney Smith)

C O U R S E O U T L I N E

<http://www.math.toronto.edu/maschler/337.html>

**Instructor:** Gideon Maschler  
**Office:** SS4091  
**Office Hours:** Tentatively Friday 1:30-2:30, or by appointment.  
**Email:** [maschler@math.toronto.edu](mailto:maschler@math.toronto.edu)  
**Phone:** 416-978-3950.  
**Textbook:** Real Analysis with Real Applications,  
K. R. Davidson and A. P. Donsig.  
**Additional:** There may be additional supplements provided as the course progresses.  
**Material:** Section 2.8, Chapters 4, 5, 7, 8, 9, much of 10 and, as time permits,  
Section 6.6, related measure theory, and applications.  
**Teaching Assistant:** Leonel Robert Gonzales  
**Office Hours:** Wednesday 1-2 in the Math SS4051, or by appointment.  
**Email:** [lrobert@math.toronto.edu](mailto:lrobert@math.toronto.edu)

The Course Mark will be a weighted average of a Term Mark and a Final Exam Mark. The higher of these two marks will weigh 60%, and the lower will weigh 40%. The Term Mark is calculated as follows:

<b>Assignments</b>	40%	of Term Mark
<b>Two term tests</b>	30% <i>each</i> ,	of Term Mark

The Final Exam Mark is the grade of a 3 hour exam given during final examination period. The term tests are provisionally scheduled for February 9 and March 23, in class. Students are required to bring their student cards to both the term tests and the final exam.

The assignments are to be handed in weekly, every Friday *in the beginning* of class, unless otherwise announced, and must not be turned in late. Each will count equally, except that the worst one will be dropped. The assignments will be announced on the course web page, and will consist mostly of problems from the textbook. These are meant to help preparations for the term tests, and will be lengthy and challenging. Expect at least eight weekly hours of work on each assignment. Joint work on an assignment aimed at reaching a general understanding is definitely encouraged. However, the writing of the assignment must be carried out with no assistance whatsoever, reflecting strictly individual effort.

Familiarity with most of the material of Chapters 1-3 is assumed, and students who need to brush up on it should do so at once, especially with regard to the notion of a limit.

Note that the material in the book will often not be covered sequentially. An attempt will be made to update the website with the sections of the book recently covered.

**The deadline to drop this course is Sunday, March 6, 2005.**