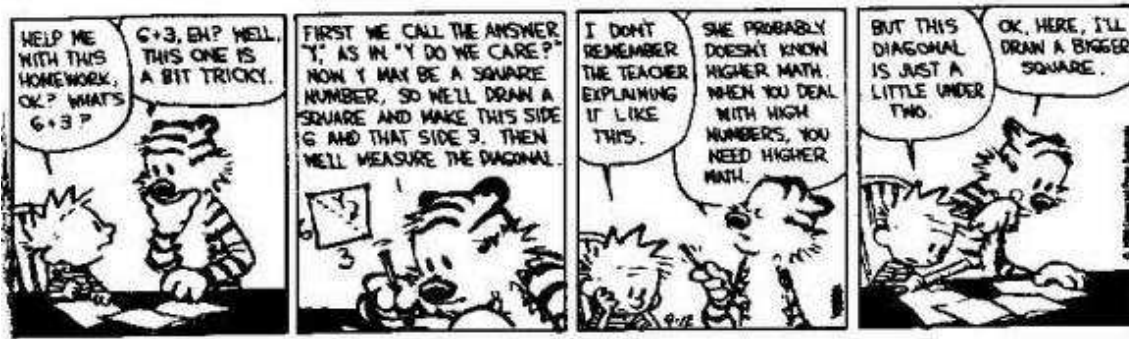


MATH 52: Linear Algebra Fall 2009



- **Instructor:** Reinier Bröker
Phone: (401) 863-7959
Office: Room 117, Math Building
Email: reinier@math.brown.edu
- **Office Hours:** Wednesday 11:00 – 12:00, or by appointment
- **Class Times and Location:**
Lecture: Monday, Wednesday, Friday 1:00 – 1:50 (F hour)
Sayles Hall, Room 002
- **Course Web Page:**
<http://www.math.brown.edu/~reinier/ma52>
This page is the primary source of information about MA 0520. Homework assignments will be posted here.
- **Text:** *Matrices and Linear Algebra* by H. Schneider and G. H. Barker. This book is available in the Brown bookstore and at various online bookstores.
- **Prerequisites:** MA 10, MA 17, or MA 19.
- **Alternatives:** There are *two* other sections of MA 52: section 01 at D hour and section 02 at K hour. Our section will run independently of the others but covers basically the same material. In addition, there is also an honors class: MA 54. Students must choose between MA 52 and MA 54.
- **Topic Covered:** Topics include matrix algebra, system of linear equations, row and column operations, equivalence relations, determinants, vector spaces and their geometry, eigenvectors and eigenvalues, linear transformations and various applications of linear algebra. Most of this material is covered in the first 7 chapters of the book. To get a more detailed list of the topics covered, simply glance at the index of the book (although we will certainly skip and swap some sections).
As the only way to *really* learn mathematics is by **doing** it, you will be expected to work on problem sets every week. You should also plan to read selections from the text in preparation for each class.
- **Grades:** Your grade is based on two midterms, quizzes/homework and the final.

Two in-class exams (25 points each)	=	50 pts.
Quizzes, and homework	=	20 pts.
Final Examination	=	30 pts.
 Total	 =	 100 pts.

$$Your\ Average = \frac{Your\ total\ points}{10}$$

- **Exam, Homework and Quiz Policy:**

I will assign homework or give a quiz each week. Both will be based on the class schedule. I reserve the right to give unannounced quizzes. In general, make-up quizzes will *not* be given. The lowest quiz/homework score will be dropped.

Make-up exams will be provided *only* for students who present appropriate documentation: a valid medical excuse, proof of a court date, or participation in University activities at the request of University authorities. A death in the immediate family will be handled on an individual basis. It is expected that in the case of illness, the student will e-mail the instructor prior to the start of the exam and will provide documentation of the illness in the next class session that is attended.

If the University is closed on the exam day, the exam will be given during the next scheduled class session.

- **Final Examination:** The location and time of the final will be announced in class.
- **Attendance and Cheating Policies:** Attendance is necessary to do well in any class and I expect students to attend every class meeting.

All students must adhere to the standards of academic honesty described in the Brown Academic Code. The ultra short summary is that I will have a **no tolerance** policy towards cheating and plagiarism.

- **Calculators** Calculators are not required for this course, and they are not allowed on any exam.
- **Note to Students:** Learning mathematics takes time and consistent effort. Regular class attendance, completing each assignment, and reading class notes and the textbook **BEFORE** every class are essential for success in this course for most students. Extra help is always available. Use this opportunity!
- **Remarks:** For the assigned homework problems, I recommend that your write-up include each problem statement, followed by your solution. While this may seem like an annoying thing to have to do, you'll find that this makes it *much* easier to use your homework to study for exams.

Always show all of your work on all graded problems. Make sure your write-ups are NEAT and easy to read. *Good communication is essential in all subjects*, especially in mathematics.

- I reserve the right to make any changes to the syllabus that I feel are necessary.