

UNIVERSITY OF REGINA
DEPARTMENT OF MATHEMATICS AND STATISTICS
Mathematics 122–003: Linear Algebra I
Fall 2009 Course Outline

Lecturer

Lecturer: Dr Robert Bailey

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Office hours: **Tuesday, Wednesday 3.00–4.30pm**, or by appointment.

Course webpage

<http://www.math.uregina.ca/~bailey/Math122/>

You are strongly advised to check the course webpage regularly, as announcements, assignments, solutions and other material will be posted there.

Prerequisites

The prerequisites for this course are Math B30 with a grade of 70% or higher, or a successful completion of a university-level mathematics or statistics class.

Classes

Classes will be **Monday, Wednesday, Friday, 1.30–2.20pm**, Classroom Building 110, starting on September 9th.

Recommended textbook

Elementary Linear Algebra (9th edition), by Anton and Rorres.

There are many, many other books on linear algebra which might also be useful: look under QA184 in the library for a selection. (Anything with a title such as ‘Introduction to Linear Algebra’ will cover this material, though be warned it may cover topics in a different order, or use slightly different notation or terminology, etc.)

Course overview

The course will be an introduction to linear algebra, with an emphasis on calculations. Topics include vectors, systems of linear equations, matrices, inverses, determinants, inner products, eigenvalues and eigenvectors. We’ll cover most of chapters 1–6 of the textbook, as well as sections 7.1 and 7.2.

Assessment

The course will be assessed by assignments (20%), two midterm tests (15% each), and a final exam (50%).

Assignments

There will be six assignments (i.e. one every two weeks), which will be due in class on Wednesdays. These will count for 20% of your final grade. You are welcome (and encouraged) to work with other students on your assignments; *however*, each student must submit their own unique paper. Late assignments will not be accepted.

For those students who successfully submit all assignments, the best five will be counted.

Midterms

There will be two midterm tests, which will take place *in class* on **October 16th** and **November 13th**. The tests will last for 45 minutes, and will be **closed-book** tests. There will be no opportunity to take the tests at alternative times.

Final examination

This will be on **SATURDAY December 12th, 2.00–5.00pm**; the location of the exam will be announced later.

Other information

Missed assignments and tests

If an assignment or a test is missed for a legitimate reason, you need to inform the lecturer as soon as possible. The term mark will be pro-rated.

Calculators

None of the test or exam questions will require you to use a calculator. However, if do want to use one, it must meet the guidelines described in the departments calculator policy:

<http://www.math.uregina.ca/current/calcpolicy.php>.

Accommodations

Any student in this course who, because of a disability, may have a need for accommodations, please come and discuss this with me as soon as possible, as well as contacting the Coordinator of Special Needs Services at 585–4631.

R. F. Bailey, 4th September 2009