

MAS 4105, Linear Algebra I

Instructor: Frank Lübeck

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Office hours: MW 11:45–12:35 and by appointment, or use email to contact me.

Classes: MTWF4 (10:40–11:30 am) in Matherly 012

Webpage: <http://www.math.rwth-aachen.de/~Frank.Luebeck/UFL>

Textbook

Friedberg, Insel and Spence, Linear Algebra, Forth Edition, Prentice Hall

The course will roughly cover Chapters 1 to 6 of this book.

Syllabus

The central topics of this course are vector spaces, linear transformations and systems of linear equations.

The emphasis is on conceptual aspects. You will see abstract definitions and rigorous proofs of all statements. In the exercises you can improve your computational skills, as well as learn to find and write up properly proofs of abstract statements.

I will not strictly follow the textbook and expect that you take notes during classes. You should permanently go through your notes after class and find and read the corresponding sections in the text book.

Homework

I will assign a list of homework problems weekly. One of the classes each week will be used for discussion of the problems. Students are encouraged to present their solutions. I will occasionally collect your solutions of the homework problems, but not grade them. Note that you can probably only follow the course if you seriously work on the homework exercises. They are given to help you understanding the content of the course.

Exams and Grading

The grading for the course will be based on exams.

There will be four one hour exams (during the class meetings), with each you can get 20 points. And there will be a final exam, covering the topics of the whole semester, worth 40 points.

For the final grading the worst one hour exam is dropped, such that you can get at most 100 points.

Then the following grading scheme is applied:

A	B+	B	C+	C	D+	D	E
86-100	81-85	76-80	71-75	66-70	61-65	51-60	0-50

Dates of exams: will be determined later.

Attendance and Missed Exams

Attending the classes is completely the students responsibility. You can miss one of the one hour exams, which is then the one which is dropped for the grading. Therefore there will be no make up exams.

General Policies

The general rules explained in the UFL *Code of Student Conduct* apply to this course. Students are expected to be on time in class and not to disturb other students during class (for example with ringing cell phones).

Students requiring special classroom accommodations for disabilities must first register with the Office of the Dean of Students. This office will provide documentation to the student, who must then give it to the instructor.