

MAC 2312, Analytic Geometry and Calculus II

Instructor: Frank Lübeck

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

Classes: MTWF8 (3:00–3:50 pm) in Matherly 003

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

Textbook

J. Stewart, *Calculus - Early Transcendentals*, 4th edition, Brooks/Cole

The course will roughly follow the Chapters 6, 7, 11, 8, 10, probably in this order.

Syllabus

The main topics of the course are integration (computational techniques and applications), sequences, series, convergence, polar coordinates.

The content will be developed along many examples from geometry, physics and so on. General formulae will be derived from the examples but often not proved rigorously. The emphasis is on applying formulae and techniques to given problems.

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. The homework solutions will not be collected or graded. But note that you will have difficulties with the exams if you do not work on the problems.

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 accomodations 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.