

Calculus I

Term/Day/Period: I (1st year, 1st semester), Thursday, 5 (4:30pm – 6:00pm)

Class room: Room C14 in Central Building

Instructor: Anne-Katrin Herbig

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Office hour: by appointment

Text: Calculus: *Single Variable Essential Calculus* (International Edition) by James Stewart, Cengage Learning, second edition (ISBN-13: 978-1-133-52862-3),

Course: Analysis is the field of mathematics that describes and analyses quantitative change and the central method is differential and integral calculus. These methods are indispensable research techniques in natural science, and recently, have found increasing application also in social science. The aim of the first half of this one-year course is to furnish students with a solid understanding of single variable calculus. Chapters 1 – 6 (3 sections per lecture) will be covered in the course.

Homework: There is no homework for this course. However, you are strongly encouraged to do all homework problems assigned to you for the calculus part of the Mathematics Tutorial I.

Quizzes: Quizzes will be given at the beginning of most classes (see schedule below).

Grading Policy: Your final grade will be determined by quizzes (30%), the midterm (30%) and the final (40%).

The grading scale will be **S:** 90-100, **A:** 80-89, **B:** 70-79, **C:** 60-69, **F:** 0-59

Class and Exam Dates: Oct. 3, 10, 17, 24, 31 (Quizzes on 10, 17, 24, 31)

Nov. 7, 14, 21, 28 (Quizzes on 7, 14; midterm exam on 21)

Dec. 5, 12, 19 (Quizzes on 12, 19)

Jan. 16, 23, 30 (Quizzes on 16, 23; final exam on 30)

Advice: • It is expected that you attend all lectures.

- Prepare for class by (1) reviewing previously learned concepts from previous sections, (2) reading the next 3 sections, and (3) completing the homework problems assigned in Mathematics Tutorial I.
- The instructor is here to help you. Please do not hesitate to contact me, earlier rather than later. I hope that you will find the course interesting and that you will have a good experience with it.
- The course website for Calculus I, Linear Algebra I, and Mathematics Tutorial I may be found at

<http://www.math.nagoya-u.ac.jp/~richard/math@g30.html>