

Mathematics 444 P13 (Elementary Real Analysis) Spring 2022

**GENERAL INFORMATION**

Instructor: Professor Aimo Hinkkanen  
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Office hours: Tuesdays and Thursdays 1:00-1:50 pm, or by appointment  
Lectures: Tuesdays and Thursdays 11:00-12:20 in 441 Altgeld Hall  
Course web page: <https://faculty.math.illinois.edu/~aimo/math444.html>  
Course materials will be available on Moodle: [learn.illinois.edu](http://learn.illinois.edu)  
Textbook: Robert G. Bartle and Donald R. Sherbert, Introduction to Real Analysis, fourth edition, Wiley, 2011.

There will be three midterm exams and a final exam. **Tentative dates of midterm exams** (subject to change):

Th February 17

Th March 24

Th April 21

More precise information on the dates of the midterm exams will be provided later. They will be all held during regular class time in the regular classroom.

**Final exam:** Thursday, May 12, 8:00–11:00 am, in the regular classroom.

**Grading:** The grade for the course will be based on the **total points** from the best two **midterm exams** (the maximum score will be 100 in each test), the **final exam** (maximum score 100), and **quizzes** (points **normalized** so that the maximum score will be 100). Hence the maximum score will be 400 for the total points.

**Quizzes.** After the first week, there will be a **quiz at the beginning of each class** (apart from a few exceptions). In each quiz, there will typically be up to three questions, each graded either 5 or 0 points depending on whether your answer is completely correct or not. A certain number (at least three) of lowest quiz scores will be dropped. (The exact number of quizzes to be dropped depends on how many quizzes we end up having during the semester and will be announced later.) Dropping one midterm exam and a number of quizzes is intended to provide leeway for those times when a student is ill, or needs to go to a job interview, or has a family emergency, or just misses class or is late for the class for some other reason. If you miss a midterm exam or a quiz, you will get zero points for it. As this system allows you to miss one midterm exam and at least three quizzes without you giving any reason for it, **no make-up midterm exams or quizzes will be given.** Exceptions will be considered only in the case of a **prolonged** illness indicated by a doctor's note. You are encouraged to take all midterm exams and quizzes and do your best.

**No books, notes or calculators will be allowed in the midterm exams, the quizzes, and the final exam. Bring your university ID to the midterm exams and the final exam.**

**Homework** problems will be suggested. A list of all suggested homework problems can be found on the course web page.

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Approximate time schedule

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Dates	Sections of the textbook to be covered	
1/18,20	1.1 – 1.2	
1/25,27	1.3, 2.1	
2/1,3	2.2 – 2.3	
2/8,10	2.4 – 2.5	
2/15,17	2.5	EXAM Th 2/17
2/22,24	3.2 – 3.3	
3/1,3	3.4 – 3.5	
3/8,10	4.1 – 4.2	
	3/12–20 Spring Break	
3/22,24	5.1	EXAM Th 3/24
3/29,31	5.2 – 5.3	
4/5,7	5.4, 6.1	
4/12,14	6.2, 7.1	
4/19,21	7.2	EXAM Th 4/21
4/26,28	7.3, 8.1	
5/3	8.2	

Note that the **dates for the midterm exams** are **tentative** (subject to change).

**Final exam:** Thursday, May 12, 8:00–11:00 am, in the regular classroom.