

Math 185 VAINTROB

Updated Syllabus, Spring 2020

3/12/2020

This is an updated syllabus for math 185 now that in-person classes have been cancelled because of the novel coronavirus. Main new changes:

- Everyone is going to pass. If you are taking the class pass-fail, you are guaranteed a Pass. If you are taking the class graded, you are guaranteed a C-.
- The new grading scheme is: 45% homework, 30% midterm, 25% final. Two homeworks are dropped. If you do better on your final than the midterm, the final score will be used. You may do a research project to make up for some (not yet determined) fraction of midterm and homework scores (but not final score). The quiz will be factored as a homework (which can be dropped).
- The midterm will be a take-home posted Friday March 13 and due Tuesday, March 17 before midnight (Thursday for DSP students.)
- Stay safe and healthy!

Basics

INSTRUCTOR. Dmitry Vaintrob,

INSTRUCTOR'S EMAIL. vaintrob@math.berkeley.edu. Please use email or come to my office during office hours to get in touch with me.

INSTRUCTOR'S OFFICE. 1073 Evans Hall

CLASS LOCATION AND TIME. MWF. 185-007 is at 2pm in Cory 341 and 185-002 is at 3pm in Cory 347.

OFFICE HOURS. Monday 4:30-6, Wednesday 11-12 (subject to change).

GRADER. Jiasu Wang, jiasu@berkeley.edu for section 002 and Kyle Huang, kyle.huang@berkeley.edu, for section 007.

TEXTBOOK. *Complex Analysis*, by E. Stein and R. Shakarchi, ISBN:9780691113852

SUPPLEMENTARY TEXTBOOK. *Complex Analysis* by T. Gamelin, ISBN:978-0-387-21607-2, freely available online through Berkeley library.

COURSE WEBSITE. <https://math.berkeley.edu/~vaintrob/185/math185.html>

Content

OVERVIEW. This is a proof-intensive complex analysis class. Comfort with material in 104 and strong familiarity with sets and functions will be assumed.

Exam dates

The midterm will be a take-home midterm posted on March 13 2020, during regular class hours.

The Final exam will be on Tuesday, **May 12 2020** 11:30-2:30 pm for group 007 and Wednesday, **May 13 2020** 7-10pm for group 002 **This is subject to change depending on health considerations by the college.**

Grading

45%: Homeworks, quizzes and other in-class assignments (expect between 10 – 20% to be quizzes).

35%: Final exam.

20%: Midterm

Note. If it benefits your score, the midterm grade will be replaced by *the average of your midterm and your final scores.*

Homework: due dates and submission

- Homeworks will be due each Wednesday, at the beginning of class. Any homework that is not in the submission pile within the first 10 minutes of class will be considered late and will not get points.
- **No late submissions will be accepted**, except in cases of emergency, or an agreement with instructor at least one week prior to due date.
- Legitimate late homeworks **must** be submitted digitally. On-time homeworks may be submitted digitally as well, though physical submissions are preferred; **see next bullet point.**
- Digitally submitted homeworks must be submitted as an easily readable pdf attachment, with “[math 185]” in the subject **and with the appropriate grader cc’ed.** If this is not done, the homework will not get graded and will get 0 points.
- Students may submit either L^AT_EX’ed or handwritten homeworks. Points will be lost for unclear or sloppy penmanship.
- The grading will be based on expectation of mature, rigorous proofs from all students. Proofs must be logically correct and concise within reason. Even if a proof is correct but is written unclearly, or if in addition to a correct proof the writeup includes superfluous unnecessary pieces, points may be taken off.

- **Collaboration is encouraged.** You are welcome to get ideas and techniques from other students and online sources, but your proof and write-up must be your own: *do not look at another solution* (whether another student's or from an online source) *while writing up your own*. Please list collaborators and any external sources that helped generate the ideas in your proof.
- **Plagiarism will not be tolerated.** Any homework or write-up that contains an instance of plagiarism (content that looks like it is derived from another student or from an online source) will void the score for the entire homework for all parties involved, and result in further penalties (or administrative action, in serious cases). As a rule of thumb: if you need to look at another proof while writing up your own, skip the problem instead.

Quizzes and in-class assignments

There will be several in-class quizzes on units of class material. These will be announced at least a week in advance.

Exams

- Exams are closed book, without notes, calculators or other external aids.
- The final exam will cover all material in the course (unless otherwise specified).
- *There are no make-up exams* (except documented medical or family emergency).

Attendance

- Please be respectful of yourselves and others: refrain from talking or checking cell phones during class.
- Lectures will not follow the course book exactly: some material will be presented differently and we may diverge from the book at some points. Anything done in class can be on a homework set or test, unless stated otherwise. If you have to miss class for some reason, it will be your responsibility to get notes from someone else.

Miscellaneous Information

- If you will need special accommodations approved by the Disabled Students' Program, make sure you discuss these with me as soon as possible.
- Incomplete "I" grades are almost never given. The only justification is a documented serious medical problem or genuine personal/family emergency. Falling behind in this course or problems with workload in other courses are not acceptable reasons.
- Academic dishonesty will not be tolerated. Any such incidents will be reported to the appropriate authorities and will almost certainly result in you failing the course.