MATH 132H: Complex Analysis (Honors)

Lecture 1, Winter 2020

Instructor: Mikhail Hlushchanka
Email: m.hlushchanka@math.ucla.edu
Office: MS 7901
Office Hours: MW 4:00pm-5:30pm (Tentatively)

Lectures: MWF 3:00pm–3:50pm, MS 5138
Course Website: https://ccle.ucla.edu/course/view/20W-MATH132H-1

Teaching Assistant: Benjamin Bowman
Discussion Sessions: R 3:00pm–3:50pm, MS 5138
Office: MS 2344
Office Hours: TBA

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General information

Course requisites
Courses 32B, 33B, and 131A with grades of B or better

Course materials
The main textbook will be Complex Analysis (Princeton Lectures in Analysis, No. 2), by Elias M. Stein and Rami Shakarchi. Additional material, when appropriate, will be communicated to you during the class.

Course description
Math 132H provides a rigorous introduction to complex analysis. Unlike Math 132, this course has more emphasis on proofs and is specifically designed for students who have strong commitment to pursue graduate studies in pure or applied mathematics. We would cover Chapters 1, 2, Sections 3.1 - 3.6, and 8.1 - 8.3 of the textbook.
Grading Policy

- Your final score in this class will be computed as the maximum of the following two schemes:

<table>
<thead>
<tr>
<th>Scheme 1</th>
<th>Scheme 2</th>
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<tbody>
<tr>
<td>Homework:</td>
<td>Homework:</td>
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<tr>
<td>15%</td>
<td>15%</td>
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<tr>
<td>Midterm 1:</td>
<td>Max. of Midterms 1 and 2:</td>
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<tr>
<td>20%</td>
<td>35%</td>
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<tr>
<td>Midterm 2:</td>
<td>Final:</td>
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<td>20%</td>
<td>50 %</td>
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<td>Final:</td>
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<td>45%</td>
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- We will use the MyUCLA gradebook.
- Any grading complaints and requests for re-grading must be submitted in writing to the instructor within one week of receiving your score. **Grading complaints not initiated within this period of time will not be considered.**

Homework Policy

- Homework assignments will be issued weekly and posted on the course website.
- Homework will be graded and promptly returned to you during your discussion sections.
- Your score on each homework assignment will be based on a few randomly chosen problems, as well as overall completion of the assignment.
- **Late homework will not be accepted.**
- The lowest two homework scores will be dropped.
- Printed or handwritten homeworks have to be submitted. No homeworks submitted via email will be accepted.
- You may use whatever resources you want to do the homework, including computers, textbooks, friends, the TA, etc. However, all homework assignments must be written by you, that is, you cannot copy someone else’s solution. By the end of the course you should be able to do all (regular) homework questions without any assistance.

Exam Procedures

- There will be two midterms and one final exam.
- The **final exam** will take place on **Monday, March 16, at 11:30am–2:30pm**; the location is TBA (most likely in our regular classroom).
- The **midterms** will take place on **Friday, January 31**, and **Friday, February 21** during the regular class time and will be 50 minutes long.
- You **must take the final exam** in order to pass the class.
- **No make-up exams** will be possible.
- Students must bring their UCLA ID cards to the midterms and to the final exam.
Communication

Individual or group consultations and discussions are welcome during office hours. Other time may be possible, but only by appointment. I will be happy to communicate by email provided that you identify yourself by your full name and mention your class. Messages lacking that attribute will not be answered.

Tentative Course Schedule

We will broadly follow the recommended schedule which is up at https://www.math.ucla.edu/ugrad/courses/math/132H. However this is liable to change depending on the pace at which our class proceeds. I may also occasionally swap a class with a discussion section. Details will be announced via the class mailing list. You should not sign up for the class unless you are able to attend both the class and the discussion sessions.
Notice about academic integrity

From the office of the Dean of Students:
“With its status as a world-class research institution, it is critical that the University uphold the highest standards of integrity both inside and outside the classroom. As a student and member of the UCLA community, you are expected to demonstrate integrity in all of your academic endeavors. Accordingly, when accusations of academic dishonesty occur, The Office of the Dean of Students is charged with investigating and adjudicating suspected violations. Academic dishonesty includes, but is not limited to, cheating, fabrication, plagiarism, multiple submissions or facilitating academic misconduct.”

Students are expected to be aware of the University policy on academic integrity in the UCLA Student Conduct Code:
Please note the sections on (1) cheating, (2) plagiarism, and (3) unauthorized study aids.

Violation of course policy involving plagiarism, cheating, or possession of course materials during exams will be referred to the Dean of Students, who will be encouraged to take strong action. Do not cheat! The penalties can be very harsh. Do not believe it if you hear that “everyone does it.” You generally do not hear about the punishments because they are kept confidential. If you are found responsible by the Dean of Students for violating course policy, cheating on any course materials, or giving or receiving unauthorized help, a zero will be assigned for the entire assignment. No exceptions will be made! Past examples of penalties also include loss of an entire term of credit and suspension for several terms. If you plan to apply to graduate or professional school, such a negative mark on your record may be a major obstacle to admission.

No cell phones are allowed during exams. They must be left in your bag and turned off, or submitted to the designated TA/proctor. Students may not use a cell phone as a clock to keep time, nor as a calculator. No hats are allowed in the testing room; they must be left in your bag.

Notice about sexual harassment, discrimination, and assault

Title IX prohibits gender discrimination, including sexual harassment, domestic and dating violence, sexual assault, and stalking. Students who have experienced sexual harassment or sexual violence can receive confidential support and advocacy from a CARE advocate:
The CARE Advocacy Office for Sexual and Gender-Based Violence
1st Floor, Wooden Center West
CAREadvocate@caps.ucla.edu
(310) 206-2465
You can also report sexual violence or sexual harassment directly to the University's Title IX Coordinator:
Kathleen Salvaty
2241 Murphy Hall
titleix@conet.ucla.edu
(310) 206-3417