

**Instructor:** Ningchuan Zhang

**Email:** nczhang@sas.upenn.edu

**Course website:** canvas.upenn.edu

**TA:** TBA

The TA will be responsible for grading your assignments. Please direct any questions regarding how you were graded on the homework to the TA in their office hours.

**Live Lectures:** This class meets TTh 1:30–3:00 pm US eastern time on Zoom. The Zoom link can be found on the Canvas course website. All lectures are recorded.

**Office Hours:** Regular time on Zoom to be determined by poll. Office hours are not recorded.

**Discussion Board:** We will use Piazza for in-course online discussions.

**Textbook:** *Complex Analysis*, by Joseph Bak and Donald J. Newman. You can download the textbook through Penn library.

**Tentative Topics:** We will cover (a large subset of) the first 16 chapters of the textbook. The topic of each week's lectures will be announced on Canvas in advance. Please read the corresponding sections of the textbook before each class.

**Homework** (60% of the total grade): During regular weeks, homework will be posted on Canvas Tuesday after class and due next Thursday before class. This will allow you to spend the week thinking about the problems, asking questions in office hours. This is an advanced class, so it will be important to first spend time figuring out the problems, and afterwards spending time formally writing up the solutions. It is a process that takes times, so please start your homework early.

Homework assignments are submitted through Canvas. You are encouraged to type your solutions using  $\text{\LaTeX}$ . Alternatively, you can scan your written solutions and upload them to Canvas. When you write your solutions, keep in mind the following things you should strive for:

- Write them as explanations for the reader (your target reader should be other students in the course); in particular, fully explain all of your reasoning and do not assume that the reader will fill in details;
- When graphical reasoning is called for, include large, carefully drawn and labeled diagrams;
- Write neatly or typeset and use complete sentences, even when formulas or symbols are involved.

Late assignments will not be accepted, but the lowest two scores will be dropped in order to avoid penalty for missed homework due to illness or emergencies. You are allowed and encouraged to work on your homework together. However, *you must write up your solutions independently*.

**Tentative Exam Plan** (40% of the total grade): There will be two open-book exams, one on October 8 before the drop deadline, and another on December 8 in the last week of the semester. There will be no exam during finals week. Each exam is worth 20% of the total grade. For students who can attend regular lectures, the exam will be held during class time that day. For students who cannot attend regular lectures due to time zone differences, a separate exam will be held the same day at

a time more convenient to them. Exams are posted and submitted through Canvas. When writing and submitting your solutions, please follow the same guideline for homework above.

The policy for missing exams is as follows. An unexcused absence from an exam will earn you a score of 0. If you miss the first exam for a documented reason (illness, personal tragedy) then the second exam will count for that portion of the grade. If you miss the second exam on the last day of class for a documented reason (illness, personal tragedy), you will be granted an incomplete and will have to make it up during the following semester. Note that incompletes are only granted in extenuating circumstances and they need to be discussed with me *prior to* missing any work or exam.

**Academic Integrity:** While the exams are open-book, *you must work independently*. On exam days, no discussion of the exam is allowed until all students in class have turned in their exams. Cheating and/or copying is forbidden by University policy. Please read the code of academic conduct. Violations of academic integrity may result in a zero score for an entire assignment or exam, and may be referred to the Office of Student Conduct for further disciplinary actions.

#### **Zoom Etiquette:**

- Please display your full name in class.
- Please mute yourself during lectures unless you have a question to ask.
- You are very encouraged to, but not required to, turn your camera on during live lectures.

**Additional Policy:** Please do not share any course materials (including the electronic textbook, posts on the discussion board, etc.), or any links (including links to Zoom lectures, recordings, live notes, etc.) to people outside of this class.

**Academic Accommodations:** If you have a documented disability requiring academic accommodation, please have the Office for Student Disability Services (SDS) provide a letter during the first two weeks of classes.

#### Important Dates (tentative)

**Exam 1:** October 8

**Exam 2:** December 8

**Homework:** assigned once a week

#### Grade Breakdown

20% of your grade.

20% of your grade.

60% of your grade.