MATH 3057A — Complex Analysis

Fall 2022, Carleton University

Professor: Charles Starling
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Office Hours: TBA

I want to take your schedule into account when setting office hours. Please email me your schedule by Sunday, September 11 if you would like me to consider your schedule when setting office hours.

I will be making all important course announcements on Brightspace. In this course, you are expected to check Brightspace and your Carleton email address regularly.

Prerequisite: MATH 2000 with a grade of C- or higher; or (MATH 2008 or MATH 2004 with a grade of B or higher, and permission of the instructor); or permission of the School.

Lectures: Wednesdays and Fridays from 11:35 – 12:55 in the Canal Building, room 2400 (CB2400).

Tutorials: Fridays 13:35 – 14:25 in the Tory Building, room 230.

Evaluation:

Assignments	30%	**Sep 21, Oct 5, Nov 9, Nov 23, Dec 7**
Midterm	20%	**Friday, October 21 in class**
Final Exam	50%	**December exam period**

Text and approximate course content: There is no required course text; your primary reference should be your in-class notes.

Here are some additional references. I will put the first two on reserve in the library.

- "Basic Complex Analysis" by Marsden and Hoffman. This book has been used for this course and for 3007 in the past.
- "A First Course on Complex Functions" by Jameson. This is a more rigorous book.
- "Complex Analysis" by Busam and Freitag. It appears to be free to download from the library. Here is the url for the Carleton library record: http://catalogue.library.carleton.ca/record=b2946628.

Approximate course content:

- The Complex Numbers
- Analytic Functions
- Contour Integrals
- Residues

No calculators will be permitted (or needed) on any test.

Notes:

- You are expected to attend all classes and tutorials. I will be posting a typed versions of the notes that I lecture from and I will be putting them on Brightspace. However, they are not a complete record of everything I say in class.
- Students who miss the final exam may be eligible for a deferral. Application for a deferral must be made, with appropriate documentation, to the Registrar's Office within five business days of the examination.

Academic Accommodation: Students with disabilities requiring academic accommodations in this course must register with the Paul Menton Centre for Students with Disabilities (PMC) for a formal evaluation of disability-related needs. Students must confirm their need for accommodation with the Instructor as soon as is possible. If students require special arrangements to meet their academic obligations, please review the course outline and write me with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Paul Menton Centre website.

Pregnancy or Religious Obligation: Please email me requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more information see the Student guide.

Survivors of Sexual Violence: As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and where survivors are supported through academic accommodations as per Carletons Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit the Equity and Inclusive Communities website..

Accomodations for Student Activities: Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, see the Senate Policy on Accommodation for Student Activities.

For more information on accommodation, see Carleton's processes for academic accommodation requests.

COVID-19: It is important to remember that COVID is still present in Ottawa. The situation can change at any time and the risks of new variants and outbreaks are very real. There are a number of actions you can take to lower your risk and the risk you pose to

those around you including being vaccinated, wearing a mask, staying home when you're sick, washing your hands and maintaining proper respiratory and cough etiquette.

Feeling sick? Remaining vigilant and not attending work or school when sick or with symptoms is critically important. If you feel ill or exhibit COVID-19 symptoms do not come to class or campus. If you feel ill or exhibit symptoms while on campus or in class, please leave campus immediately. In all situations, you must follow Carleton's symptom reporting protocols.

Masks: Carleton has paused the COVID-19 Mask Policy, but continues to strongly recommend masking when indoors, particularly if physical distancing cannot be maintained. It may become necessary to quickly reinstate the mask requirement if pandemic circumstances were to change.

Vaccines: Further, while proof of vaccination is no longer required as of May 1 to attend campus or in-person activity, it may become necessary for the University to bring back proof of vaccination requirements on short notice if the situation and public health advice changes. Students are strongly encouraged to get a full course of vaccination, including booster doses as soon as they are eligible, and submit their booster dose information in cuScreen as soon as possible. Please note that Carleton cannot guarantee that it will be able to offer virtual or hybrid learning options for those who are unable to attend the campus.

All members of the Carleton community are required to follow requirements and guidelines regarding health and safety which may change from time to time. For the most recent information about Carleton's COVID-19 response and health and safety requirements please see the University's COVID-19 website and review the Frequently Asked Questions (FAQs). Should you have additional questions after reviewing, please contact `covidinfo@carleton.ca`.