Welcome to
MATH 3171 - Complex Analysis
Fall term 2020

INSTRUCTOR: Dr. Monica Ilie

- **Contact info**: RB 2019 ⋆ *milie@lakeheadu.ca*

- **Office hours**: Tu/Th 10:00-11:00 (or by appointment) via Zoom

COURSE OBJECTIVES At the end of this course you will know how to work with a large class of complex functions, be able to analyze their properties (analyticity, differentiability, continuity) as well as integrate them on contours. You will have a good grasp of the connections between complex and real analysis, how the former is built upon the latter, as well as that of using complex analysis to compute integrals of real functions.

COURSE INFORMATION:

- **Class time**: Tuesday/Thursday 11:30-12:45 (synchronous via Zoom)

- **Suggested Textbook**: *Complex variables and applications* by James Ward Brown and Ruel V. Churchill

- **Website**:

  https://mycourselink.lakeheadu.ca

- **Grading:** Your final grade will be given according to the grading scheme bellow:

Assignments	Midterm 1	Midterm 2	Final Exam
15%	25%	25%	35%
	(Oct 8)	(Nov 19)	

- **Midterms**: Midterm 1: Thursday, October 8; Midterm 2: Thursday, November 19th (online, during class time)

SYLLABUS

The topics to be covered are, tentatively, the following: Chapter 1 - Chapter 7

ASSIGNMENTS

Homework assignments are given as topics are covered in class, and announced on the course website. Assignments are intended for your own **individual work**, they are not supposed to be worked in groups. It is required that you acknowledge any web resources or books (other than the recommended ones) that you may have used for your homework. Failure to do so constitutes **plagiarism**. Late assignments will **not be accepted**. Some assignments will be on WebWork and some may need to be scanned and uploaded on D2L under the Assignments section.

BONUS points: Bonus points will be awarded for in class participation to poll questions and in class work. These will also made available, via links on the course website,

for 12h after the lecture, for the students that cannot attend the synchronous class due to time zone differences. Each activity will earn you one point. The maximum number of points will add a 2% bonus to your final mark.

ACCOMODATIONS

Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please visit: http://studentaccessibility.lakeheadu.ca

IMPORTANT DATES:

- **September 21, 2020:** last day for registration

- **November 6, 2020:** last date for course withdrawal without academic penalty

- **December 21, 2020:** contingency date (all exams that are missed by the closure of the university during the exam period, due to unforseen circumstances, will be rescheduled this day)