

*Welcome to*  
**MATH 3171 - Complex Analysis**  
*Fall term 2021*  
**Hybrid delivery**

**INSTRUCTOR:** Dr. Monica Ilie

- **Contact info:** RB 2019 ★ *milie@lakeheadu.ca*
- **Office hours:** Monday and Thursday 1:00-2:00 (via Zoom), or by appointment

**COURSE OBJECTIVES** At the end of this course you will know how to work with the set of complex numbers, as well as with the set of complex functions. You will be able to analyze the properties of complex functions (analyticity, differentiability, continuity) as well as integrate them on contours. You will have a good grasp of the connections between complex and real analysis and, as one of the main applications, you'll learn how to use complex analysis techniques to quickly compute difficult integrals of real functions.

**COURSE INFORMATION:**

- **Class time:** Tuesday/Thursday 10:00-11:15 (hybrid: RB 3027 and online 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 2	Final Exam
20%	35%	45%
	(Th, Oct 28)	(TBA)

**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. There will be a mix of written assignments that will be scanned and uploaded on D2L and online assignments done through the WebWork system.

**Note:** 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**.

## 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 20, 2021:** last day for registration
- **November 5, 2021:** last date for course withdrawal without academic penalty
- **December 20, 2021:** contingency date (all exams that are missed by the closure of the university during the exam period, due to unforeseen circumstances, will be rescheduled this day)