

# MATH 3057A – Functions of a Complex Variable (Honours) – Fall 2018

Instructor: Dr. Lucy Campbell

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Office hours: (**Time to be decided**), or by appointment

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**Lectures:** Mon/Wed 10:00-11:30, in Southam 403, starting Sept 5.

**Tutorial:** Mon 2:30-3:30, in Unicentre 280, starting Sept 17 (**TA:** Zachary Zanussi).

**Course web-site:** <http://www.math.carleton.ca/~campbell/MATH3057>

**cuLearn:** <https://www.carleton.ca/culearn>

**Prerequisite:** MATH 2000 with a grade of C- or higher, or permission of the School.

## References:

Complex Variables, by S. D. Fisher (available in the bookstore)

Complex Variables and Applications, by J. W. Brown and R. V. Churchill

## Topics:

Analytic functions, Cauchy's theorem, contour integration, series representations of analytic functions, calculus of residues, conformal mapping.

## Grading scheme:

25 % — 4 homework assignments

20 % — Midterm exam

55 % — End-of-term exam (during the exam period in December)

Students are required to take the midterm exam and do all assignments except in case of documented illness or other emergency situation beyond your control. There will be no make-up tests.

Students who wish to review their final examination paper must do so by January 15, 2019. This privilege is for educational purposes and not an opportunity to argue about the marking.

**Fall Break:** There will be no classes from Oct 22–26.

## Academic Accommodation:

The Paul Menton Centre for Students with Disabilities (PMC) provides services to students with Learning Disabilities (LD), psychiatric/mental health disabilities, Attention Deficit Hyperactivity Disorder (ADHD), Autism Spectrum Disorders (ASD), chronic medical conditions, and impairments in mobility, hearing, and vision. If you have a disability requiring academic accommodation in this course, please contact the PMC at 613-520-6608 or [pmc@carleton.ca](mailto:pmc@carleton.ca) for a formal evaluation. If you are already registered with the PMC, contact your PMC coordinator to send me your Letter of Accommodation at the beginning of the term, and no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with me to ensure accommodation arrangements are made. Please consult the PMC website for the deadline to request accommodation for the formally-scheduled exam (if applicable).

For pregnancy or religious obligations, write to 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.