MATH 3057 — Complex Analysis
Fall 2017, Carleton University

Professor: Charles Starling
Office: 4215 Herzberg Laboratories
Email: `cstar@math.carleton.ca`
Office Hours: To be determined. Please send me a copy of your course schedule by Sunday, September 10 if you wish me to take it into account.

I will be making all important course announcements on CU Learn and will be posting midterm and assignment solutions there. In this course, you are expected to check it 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: Tuesdays and Thursdays from 10:05 – 11:25 in the Loeb Building, room B243.

Tutorial: Tuesdays 4:35–5:25 in Residence Commons 211.

Evaluation: There will be semi-regular assignments, one midterm, and a final exam. The date of the midterm is **Thursday, October 19**.

- Assignments — 30%

- Midterm — 20%

- Final Exam — 50%

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

I have put two reference books on reserve in the library.

1. "Basic Complex Analysis" by Marsden and Hoffman. This book has been used for this course and for 3007 in the past. Some of the proofs can be a bit brief, but it is an excellent (and thorough) reference, with many worked examples and solutions in the back of the book.

2. "A First Course on Complex Functions" by Jameson. This book is more concise than Marsden and Hoffman, and rigorous.

Approximate course content:

- The Complex Numbers
- Analytic Functions
- Contour Integrals
- Residues
- Conformal Mappings (time permitting)

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

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 no later than one week before the first quiz. 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.

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 details, see the Student Guide.

Notes:

- You are expected to attend all classes and tutorials. I will be scanning the notes that I lecture from and I will be putting them on CU Learn. 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.