

Introduction to Complex Analysis

Course: MATH 3210

Semester: Fall 2018

Instructor: Yorck Sommerhäuser

Office: HH-3007

Telephone: 864-8097

E-Mail: sommerh@mun.ca

Class meetings: Tuesday, Thursday 10:30 am–11:45 am, HH 3015

Office hours: Monday, Wednesday, Friday 3:15 pm–4:45 pm and by appointment.

Textbook: J. W. Brown/R. V. Churchill: Complex Variables and Applications, 7th ed., McGraw-Hill, New York, 2004 (required resource)

Course description: The course examines complex numbers, analytic functions of a complex variable, differentiation of complex functions and the Cauchy-Riemann equations, complex integration, Cauchy's theorem, Taylor and Laurent series, residue theory and applications.

Coverage: We cover approximately the first six chapters of the textbook.

Exams: There will be a midterm exam and a comprehensive final exam. The midterm exam takes place on Thursday, October 18 during regular class time in the usual classroom. The final exam takes place during the examination period from December 5 to December 14 at a time and in a room determined by the registrar's office.

Homework: Beginning Tuesday of the second week, a weekly exercise sheet will be handed out. This has to be submitted in class on the following Tuesday. There will be no exercise sheet during the week of the midterm exam and no exercise sheets during the last two weeks of the semester. In addition, a reading assignment from the textbook will be given in every lecture.

Policies: Eating, drinking, and smoking is not permitted in the classroom. You are expected to be present at every class meeting, from the beginning to the end. Attendance will be taken and used to make decisions in borderline cases. The use of electronic devices, especially cellphones, calculators, and laptop computers, is not permitted without explicit permission of the instructor. Electronic devices have to be turned off completely.

Memorial University accommodates students with disabilities and demands academic integrity. The corresponding university policies can be found at <http://www.mun.ca/policy/site/policy.php?id=239> and in the Academic Calendar in Paragraph 6.12, respectively.

Prerequisite: MATH 3000 (Real Analysis I)

Marking weights:

Homework:	25 %
Midterm exam:	25 %
Final exam:	50 %