Introduction to Complex Analysis

Course: MATH 3210

Semester: Fall 2016

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: Tuesday, Thursday 11:50 am–12:50 pm and by appointment.

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

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 Tuesday, October 18. The final exam takes place during the examination period from December 7 to December 16 at a time 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 in 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. Although attendance is not recorded, you are expected to be present at every class meeting, from the beginning to the end. 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

Marking weights:

Homework:	20 %
Midterm exam:	30 %
Final exam:	50 %