Introduction to Complex Analysis

Course: MATH 3210

Semester: Fall 2015

Instructor: Yorck Sommerhäuser

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Class meetings: Tuesday, Thursday 10:30 am–11:45 am, HH 3017

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

Textbook: J. W. Brown/R. V. Churchill: Complex Variables and Applications, 9th ed., McGraw-Hill, New York, 2013

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 15. The final exam takes place during the examination period from December 9 to December 18 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. 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.

Prerequisite: MATH 3000

Marking weights:

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

Marking scale: A: 90% B: 80% C: 70% D:60%