Syllabus: MA 445/545 OP – Complex Analysis Summer, 2021

Class meets: M-W-F 9:40–11:00, UBOB 108

Instructor: Dr. Nándor Simányi

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Office hours/consulting: Monday & Wednesday, 4:00--5:00, or by e-mail.

Textbook: Complex Variables and Applications by James Ward Brown and Ruel V. Churchill, McGraw-Hill. (Any edition.)

Course Description. (3 credit hours) Review of complex numbers and infinite series, analytic functions, complex integration and Cauchy's theorem, Taylor and Laurent series, calculus of residues and applications, conformal mappings.

Assessment Procedures. Student achievement will be assessed by any or all of several measures: short weekly quizzes, two midterm tests, and a comprehensive final test.

A numerical grade is given on each item. All quizzes and midterm tests take place on Fridays. Recommended homework exercises will give you a good opportunity to practice your knowledge, while also orienting you towards the style of problems you can expect on the midterm and final exams.

Grading Policy. Student achievement on the items assessed will be used to determine the final grade. The percentage of the final numerical grade (0-100 scale) assigned to each item is as follows:

Final exam: 40%, major tests: 20% each, quizzes: 20%. The final (aggregate) numerical score (percentage) will be curved. The 500-level students will have to prepare a special written project (5-10 pages) submitted until a designated deadline to successfully pass the course.

Presumptive schedule of the tests:

Test 1: June 25

Test 2: July 16

Final: August 9