Course Instructor: Rudi Weikard
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Office Hours: Drop in anytime or call for an appointment.

Meeting times: MWF 12:20 pm — 1:10 pm
Meeting location: CH 4
Textbook: No textbook required. Lecture notes will be available.

Course content:
- The complex numbers: algebra, geometry, and topology
- Complex-valued functions of a complex variable
- Cauchy’s theorem and some of its consequences
- Isolated singularities
- A zoo of functions
- Entire functions

Assessment procedures:
The cornerstones of Complex Analysis are the concept of a holomorphic function and Cauchy’s theorem with its far-reaching consequences. A grade of B should indicate a solid understanding of these matters while a grade of A should signify a deep understanding. We shall attempt to assess the level of understanding through the level of participation in the course.

By the end of the term every student will have attained a score (as described below) by presenting topics of the class notes to the class. Denote the highest score achieved by anyone by N. Assuming we will cover the entire course 90% of N will be needed for an A, 75% of N for a B, and 40% of N for a C.

Determination of a student’s score is done by the following rules.
(1) Students present the material given in the lecture notes. Everybody will have the opportunity to present topics.
(2) The audience (including the instructor) may challenge a statement made in the course of the presentation.
(3) If the presenter is able to defend the challenged statement, he or she proceeds; if not, the presenter must sit down earning no points for this topic.

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and losing the right to present again that day. The challenger may present his or her solution or elect to receive a challenge reward (see rules (9) and (11)).

(4) A presentation will be considered correct if no one has objections (or further objections). The presenter and, if applicable, his or her collaborators (see rule (8)) will earn a total of 10 points at this time.

(5) During class the instructor has the final decision on determining whether an argument may stand or not.

(6) While presenting proofs you may only refer to results known from Advanced Calculus or the appendix of the notes as well as those theorems in the notes which occur before the one you are working on.

(7) You must give credit where credit is due, i.e., during your presentation you must declare the points at which you had help and by whom.

(8) It is also possible to report joint work. In such a case 4 points will be earned for the presentation while the other 6 are evenly distributed among the collaborators.

(9) The successor of a presenter will be chosen as the student with the smallest number of points among the volunteers taking into account the modification by rules (3), (10) and (11). A die is rolled, if necessary.

(10) You may volunteer for a particular problem by an e-mail to me. This (in the order received) establishes priority among volunteers with the same number of points.

(11) For a student who has earned a challenge reward 20 points will be subtracted from his or her current score for the purpose of determining a successor. At the time such a student is selected to present a topic the challenge reward expires.

(12) Class attendance and participation is required. Absences from class are recorded in Canvas. After 5 absences from class 10 points will be subtracted from your class score and the count of absences is set again to zero.

(13) There will be no partial credit except as described above to share credit.

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