Math 655. Theory of Functions of a Complex Variable I

SYLLABUS FOR FALL 2017

Instructor: Dr. Erwin Miña-Díaz
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Office hours: Mon, Wed, 9:30-11:00 PM
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Course information

Meeting time/place: Tuesday-Thursday, 11:00 AM - 12:15 PM, Hume Hall 331
Course description: This course, together with its second part MA 656, is an introduction to the beautiful subject of complex analysis. We will deal with concepts familiar to you from your study of calculus like continuity, derivatives, integrals, sequences and power series. Though at first sight it might seem that we are simply extending the real variables calculus to the setting of complex numbers, it will soon be clear that there are profound differences between real calculus and complex analysis. In particular, complex analysis stands out for its elegance and powerful results, including applications to real variable calculus, combinatorics, number theory, physics and engineering. This is a theoretically oriented course, with a mathematical emphasis in proving results. The aim of the course is to prepare the student for an independent study of more advanced topics as well as for initiating research in any field with a complex analysis background.

Attendance policy

Attendance is mandatory.

Homework

Doing the homework is vital for a true comprehension of the material and doing well in this course. However, the homework will not contribute to your grade. I strongly encourage you to attend office hours to discuss your homework solutions.

Tests, final exam and grades

There will be two tests, each worth 100 points. The final exam is comprehensive and worth 200 points. Thus, your maximum possible score is 400 points, and your grade will be determined according to the following scale:

- A  93%  A-  90%  B+  87%  B  83%  B-  80%  C+  77 %
- C  70%  D  60%  F  below 60%

Test 1 on Thursday, September 21
Test 2 on Thursday, October 26
Final Exam on Tuesday, December 5 at Noon.

Academic needs

It is the responsibility of any student with a disability who requests a reasonable accommodation to contact the Office of Student Disability Services (915-7128). Contact will then be made by that office through the student to the instructor of this class. The instructor will then work with the student so that a reasonable accommodation of any disability can be made.

Withdrawal deadline

Withdrawal deadline for the 2017 Fall Semester is Monday, October 2. After the Course withdrawal deadline, courses dropped will be recorded on University records and the W grade will be recorded if the student is not failing the course at the time of withdrawal; otherwise the grade recorded will be F. After the course withdrawal deadline, a student may drop a course only in cases of extreme and unavoidable emergency as determined by the academic dean; dropping a course after the deadline will not be permitted because of dissatisfaction over an expected grade or because the student is changing his/her major.