

Math 4552 Section 0010 – Spring 2015
Complex Analysis

Instructor:

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Office Hours: TBA

Meeting times and locations:

Section 0010 MWF 12:40PM-1:35PM in Scott Laboratory (SO) N056

Course webpage:

<https://people.math.osu.edu/broaddus.9/4552>

Textbook:

R. V. Churchill and J. W. Brown, *Complex variables and applications*, ninth edition, McGraw-Hill, New York, 2013. ISBN-13: 978-0073383170

About this course:

Welcome to Math 4552! This course is an introduction to integration and differentiation over the complex numbers. Although many of the definitions will look similar to those from real analysis you should expect some very new phenomena. In this course you will expect to understand and write your own proofs. The goal of this course is to cover the first eight chapters of the text above. Hence the pacing will be roughly one chapter every two weeks.

What you should get out of this course:

During the course of this semester we will cover the following topics:

1. Complex numbers
2. Complex differentiation
3. The exponential function
4. Integration
5. Series
6. Residues and poles
7. Some basic mapping

Grading:

Your grade will be computed using the following weights:

- 40% Final exam – 12PM-1:45PM Tues. May. 5
- 20% Midterm 1 – Monday, February 16
- 20% Midterm 2 – Friday, March 13
- 20% Homework and Quizzes

Your grades will be recorded on Carmen and your final grade will be curved. Consequently, it is impossible to give *a priori* a precise course-total-to-letter-grade correspondence.

Homework:

Homework will be announced on the website (<https://people.math.osu.edu/broadus.9/4552>) and is **due at the beginning of class. No late homework will be accepted!** If you cannot make it to class be sure to make arrangements for a classmate to hand in your homework for you. Your lowest five homework grades will be dropped. It is your responsibility to check the website daily to make sure that you do not miss a homework assignment.

Working Together:

You are encouraged to work together on homework assignments. In fact it is a very good idea to find someone a classmate to work with on a regular basis. However, you should write up your homework solutions separately.

Help:

If you are having trouble in the class you can

1. ask lots of questions in class (this is my favorite option)
2. come to my office hours (TBA)
3. make an appointment with me for another time

Don't let yourself fall behind. This class moves very quickly.

Calculators and other electronic devices:

Calculators, smart phones, computers, tablets and other electronic computation devices are not allowed during quizzes and exams. You are encouraged to do further research on your homework online, but you should not consult online solution sets for this course for homework that you have not handed in or hope to have graded in the future.

Disability Statement:

If you have a documented disability, please register with Student Life Disability Services. After registration, make arrangements with me as soon as possible to discuss your accommodations, so they may be implemented in a timely fashion. If you have any questions about this process, please contact Disability Services at 614-292-3307 or slds@osu.edu.