

Math 7610: Complex Analysis, Spring 2011

Instructor:	Dr. Amanda Knecht	Office:	SAC 323
E-mail:	amanda.knecht@villanova.edu	Phone:	610.519.6659
Office Hours:	M 11:30-12:30, W 1-4 and by appointment		

Text: *Complex Analysis*, by Elias M. Stein and Rami Shakarchi, Princeton University Press 2003. ISBN:0691113858

Structure of the Course: My goal for the semester is to introduce you to Complex Analysis while also making sure that everyone comes out with the ability to clearly explain their mathematical reasoning and type in LaTeX. The class will work as a team to clearly write the solution to homework problems on the board during the first hour of each meeting. We will then assign everyone one problem to type up perfectly and hand in the next week. The next two hours will be reserved for lecture. After each hour we will have a 5 minute break.

Course website: <http://www.homepage.villanova.edu/amanda.knecht/math7610.html>

The course website will have links to all homework assignments and anything else I hand out in class.

Grading: The various components of your work in the course will be assigned the following portions of your total score out of a possible 300 points. Your first two absences will each deduct 5 points from your participation score. Anyone missing more than two classes will receive a 0 on the participation component of the grade.

Homework	100 points
Participation	100 points
Final Project	100 points

The grading scale is the usual one where the pluses and minuses will be determined at the end of the semester when I see how the scores are distributed.

A	300-269
B	268- 239
C	238-209
D	208-179
F	178-0

Homework: Each week you will be assigned a problem to type up after it has been discussed in class. Your proofs should be solid and logical, and I will grade accordingly.

Participation: The first hour of each class is devoted to working as a team to write solid proofs of the homework. In order for this to work, everyone must work outside of the classroom to complete as many of the homework assignments as they can. I understand that some problems may be more challenging to some people and easier for others, and this is why you will be a team. The participation grade will reflect how much input you put into the discussions each week. You need to show me that you are working outside of class. You should volunteer at least every other week to put a problem on the board if you want to receive an A in this component.

Final Project: Many of you emailed me asking if this class would be “applied.” The projects are a time for you to show me and the rest of the class how Complex Analysis is applicable to your interests. The last two class meetings will be devoted to your twenty minute project presentations. If you miss one of these meetings, your participation grade will be dropped by 10 points.