

Introduction to Complex Variables. Math 415/515 Fall 2012

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250 Bear Hall http://people.uncw.edu/lammersm/

Office Hours MWF 10-11

Text *Schaum's Outline of Complex Variables*, 2ed Spiegel et al.

Attendance Regular Attendance is expected and may affect your grade.

Undergraduate Student Learning Outcomes

- Develop facility with complex numbers and the geometry of the complex plane.
- Be able to apply the classic results in Complex Analysis.
- Apply complex residue theory to integration of real valued functions.

Graduate Student Learning Outcomes

- Extend the theory of real valued analysis to the complex plane.
- Be able to prove and apply the classic results in Complex Analysis.
- Have a solid understanding of complex residue theory and its applications.
- Apply mathematical reasoning and the theory of complex variables to solve theoretical and applied problems.

Grading	2 Tests	200 points		
	Final Exam	100 points	$A \geq 90\%$	$B \geq 80\%$,
	Homework	100 points	$C \geq 70\%$	$D^* \geq 60\%$
	Quizzes	50 points		
	Total	450 points		

* There is no grade of D for Graduate Students.

The instructor reserves the right to change these percentages in the students favor and assign pluses and minuses as he deems appropriate. In addition, the graduates and undergraduates will be held to different standards and those enrolled in the graduate section will be assigned additional questions on the homework assignments and tests.

Homework All examples and solved problems should be reviewed as the material for those sections is being covered. Some additional homework from the book will be assigned but will not be collected. The homework I will grade will be on a written sheet and handed out in class.

ADA If you have a disability and need reasonable accommodation in this course, you should inform the instructor of this fact in writing within the first week of class or as soon as possible. If you have not already done so, you must register with the Office of Disability Services in Westside Hall (ext. 3746) and obtain a copy of your Accommodations Letter. You should then meet with your instructor to make mutually agreeable arrangements based on the recommendations of the Accommodations Letter.

Web Site Homework and review sheets will be available at the web-site listed above.

Religious Observance Policy In accordance with North Carolina G.S. 116-11(3a), you are entitled to two excused absences for religious observances per academic year. In order to preserve your right to make up any tests or other work missed for religious observance required by your faith, you must inform the Registrar in writing of your intended absence before the end of the first week of class.

Zero Tolerance Policy UNCW practices a zero tolerance policy for violence and harassment of any kind.