Text: The assigned text for the course will be:

Title: “Complex Analysis”

Authors: Elias Stein and Rami Shakarchi

Publisher: Princeton University Press

Additional material will be taken from other sources such as books or papers.

Prerequisite and Description: Math 5021 is an introduction to graduate complex analysis and serves as the basis for the Ph.D. qualifying exam in complex analysis. Topics covered include: Elementary properties of complex numbers, complex line integrals, applications of Cauchy’s Integral, meromorphic functions, zeros of holomorphic functions, holomorphic functions as geometric mappings, harmonic functions, analytic functions and infinite series and products.

Prerequisites for the course are Math 4111, 4171, and 4181, or permission of the instructor.

Attendance: Attendance is required for all lectures. The student who misses a class meeting is responsible for any assignments and/or announcements made. Office hours will not be utilized to re-teach material presented in class. However, questions to better understand the course are always welcome.

In the event of an absence that will impact your ability to complete your assignments due to travel representing Washington University - St. Louis, you must notify the professor at least two weeks in advance to arrange an early test or other alternative. Otherwise, such absences will be treated as personal.

Homework: This course will have daily homework assignments which should be done before the next class. Homework will be collected and graded.

Exams: This course will have two mid-term exams and a comprehensive final exam. The mid-term exams will be take home, while the final exam will be in class. The exams for the course will take place on:
Exam Dates:

Exam 1  September 27, 2018 (tentative)
Exam 2  November 8, 2018 (tentative)
Final Exam  Tuesday, December 18 1:30pm - 4:30pm

Learning Disabilities: It is the right of any student with a certified learning disability to request necessary accommodation. Such requests must be made well in advance of the time that the accommodation is required and a letter of documentation from the CornerStone office must be presented at the time of any request.

Academic Honesty: It is expected that all students are aware of their individual responsibilities under the WUSTL Academic Integrity Policy, which will be strictly adhered to in this class. Any violations must be reported directly to the Dean of Students.

Grades: The usual ten-point scale will be used (A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: 0-59), however, if necessary, adjustments will be made to arrive at a standard grade distribution. Grades will be based upon attendance, participation, homework, and exams.

<table>
<thead>
<tr>
<th>Attendance/Participation</th>
<th>10%</th>
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</thead>
<tbody>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>40%</td>
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<tr>
<td>Final Exam</td>
<td>30%</td>
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</tbody>
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Important Dates for Fall 2018:

August 27  First day of classes
September 3  Labor Day - No Class
October 13 - 16  Fall Student Recess - No Class
November 21 - 25  Thanksgiving Break - No Class
December 7  Last day of classes