Complex Variables 3450:425/525–001 Fall 2015 MWF 8:50–9:40am, CRH 209


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Office Hours: MWF 10:00–10:50am, other hours by appointment

Course Outline

- Chapter 1: Complex Numbers
- Chapter 2: Complex Functions
- Chapter 3: Analytic and Harmonic Functions
- Chapter 4: Sequences, Julia and Mandelbrot Sets, and Power Series
- MIDTERM EXAMINATION
- Chapter 5: Elementary Functions
- Chapter 6: Complex Integration
- Chapter 7: Taylor and Laurent Series
- Chapter 8: Residue Theory
- Other selected topics (if time allows)
- FINAL EXAMINATION

Course Policy

1. Incompletes will only be given in documentable cases of long-term illness, or similar problems. You must have completed at least half of the course work, with at least a C average, and may only make up the missed material, within one semester.

2. Homeworks will be assigned for each section from the book, and are for a) re-inforcing the skills and techniques presented; b) building the necessary speed, so that you do better on tests and c) because some of the problems on tests could well be selected from the assigned problems. Each problem will be graded 0-5 points. At the end of the semester, your homework score will be based on the best 80–90% of the problems graded. No late homework will be accepted. All work submitted must be your own. Presentation does count, including spelling.

3. Tests If you are going to miss a test you must have a valid, documentable excuse and notify me in advance, or as soon as reasonable afterward.
4. **Final grades** will be determined as follows: Homework: 30%, Midterm: 30%, Final: 40%.
   The grade scale will be **no higher than**: A 90-100%, B 80-89%, C 70-79%, D 60-69%.

5. All University Rules and Regulations are in effect, including those on attendance, discipline, academic honesty and harassment. If you do not appear on the class list by September 3rd, you are not permitted to attend.

6. The **prerequisite** for the course is a grade of C- or better in 3450:223 Analytical Geometry–Calculus III (or appropriate placement).

7. **Important Dates:**
   - Monday, August 31, 2015 – First day of class
   - Monday, September 7, 2015 – Labor Day (no classes)
   - Friday, October 19, 2015 – Final day to withdraw
   - Thursday, November 26 to Sunday, November 29, 2015 - Thanksgiving recess (no classes)