3450:425/525 Complex Variables Fall 2020

Instructor: Dr. C. B. Clemons email:curtis2@uakron.edu

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Text: Complex Variables with Applications 9th edition, by james Ward Brown & Ruel V. Churchill

## Learning Outcomes.

• Communicate mathematical results through the proper use of mathematical notation and words

- Perform basic computations that involve complex numbers, analytic functions, integrals, series and residues.
- Construct proofs involving complex numbers, analytic functions, integrals, series and residues.

## Course Policies.

1. Course grades are determined by:

midterm	100 pts	A	90 - 100%
homework	100  pts	В	80-89%
final	135  pts	$\mathbf{C}$	70-79%
		D	60-69%
		$\mathbf{F}$	0 - 59%

Total 335 pts

- 2. Plus/Minus grades are given in each grading range at the professor's.
- 3. **Prerequisite** for this course is a grade of C- or better in 3450-223 Analytical Geaometry-Calculus III (or appropriate placement).
- 4. **Graduate Students** Graduate students will accessed different than undergaduate students by several extra questions on the mid-term and final exam.
- 5. **Make-Up tests** are given at the professor's discretion and only with a valid excuse and prior notice of absence.
- 6. Homeworks will be assigned for each section, and are for a) re-inforcing the skills and techniques presented; b) building necessary speed, so that you do better on exams, and c) because some of the problems on exams could well be selected from the assigned problems. Each problem will be graded 0-5 points. At the end of the semester, your homeowrk grade 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.
- 7. **Drop/Withdrawal Policy:** Drops: New and Continuing students may DROP a course via ZipLine through September 6th. Courses dropped by the end of the day on September 6th will not appear on a students transcript. No signatures are required to drop a course.

Withdrawals: New and Continuing students may withdraw from a course between September 6th and October 11th via ZipLine. A WD will appear on the students transcript. No signatures are required to withdraw from a course.

8. **University Regulations:** All University regulations, including academic dishonesty, sexual harassment and withdrawal from thos course apply. Please refer to The University of Akron's Dishonesty Policies and Sexual Harassment Publications for a more details.

TENTATIVE OUTLINE

Chapter	Topic
1	Complex Numbers
2	Analystic Functions
3	Elementary Functions
4	Integrals
	MIDTERM
5	Series
6	Residues and Poles
7	Applications of R3sidues
8	Mappings
	Other elected topics
	Final Examination