



BISHOP'S UNIVERSITY

MATH 317: COMPLEX ANALYSIS FALL 2014

INSTRUCTOR: Trevor Jones
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WEBSITE: <http://cs.ubishops.ca/~thj>
LECTURES: MW 10:00-11:25, Nicholls 109
OFFICE HOURS: T 09:00-11:30, or by appointment

REQUIRED TEXT: *Complex Analysis*, by B. O. J. Tupper
Course Pack available at the Bookstore

DESCRIPTION: Sequences and series of complex numbers. Functions. Limits. Continuous functions. Analytic functions. Cauchy-Riemann equations. Conformal mappings. Contour integration. Cauchy's theorem. Cauchy's integral formula. Taylor and Laurent series. Singularities and residues.

GRADES: The final grade will be calculated using the scheme below.

Final Exam, three hours in duration 100 %

However, if at least five assignments have a positive grade, and the test has been written, then the following change to the grading scheme is allowed, if it gives a higher grade:

- Assignments, generally once per week 18 %
- Tests, there will be one midterm test, held during class time 24 %
- Final Exam, three hours in duration 58 %

PREREQUISITE: Mathematics 207 or consent of the instructor.

SYLLABUS: We will cover the following material, though not necessarily in this order:

- Complex Numbers [3 hours]
- Functions of a Complex Variable [6 hours]
- Conformal Mappings [10 hours]
- Integration [6 hours]
- Residue Theory [8 hours]

NOTES:

- Tests and the final exam are closed book and closed notes. The use of aiding devices such as calculators, translators, or dictionaries are not permitted during the writing of tests or exams. If additional clarification concerning a test/exam question is requested by a student the attending examiner may provide additional clarification.
- A supplemental exam will be given on January 5, 2015 at 09:00 for those who qualify.
- Late assignments will not be accepted.