

MATH 4200—Introduction to Complex Analysis

Section 01, MW, 3:45–5:00 pm, NIB 135, CRN: 25217

Spring 2012—3 credits

Instructor: Taylor Jensen

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Office Hours: MTWRF 9:00–9:50 am; MTWR 11:00–11:50 am; other times by appointment

Additional Help: NIB 202 or Browning Learning Resource Center

Required Text: *Complex Variables and Applications* (8th edition) by Brown & Churchill

Prerequisite: You **must** have successfully completed Math 3200 (Analysis I).

Math 4200 is an overview of complex variables. Our treatment of the subject will include analytic functions, conformal mappings, and contour integration.

All classes in mathematics at Dixie State College of Utah support the general education goals of the college. Each mathematics class will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations, and/or calculus techniques
- Provide students with application problems that use a variety of methods including arithmetical, algebraic, and geometric methods
- Challenge students to make inferences from mathematical models that include formulas, graphs, and tables
- Provide students with real-life applications that use a variety of mathematical functions

Behavior Policies

1. **Your attendance and behavior are expected to reflect your dedication to excellence as a university student.** You are expected to attend class, participate in discussions and group work, and to use class time for Math 4200 activities only.

2. **You must abide by all regulations set forth in the “Student Rights and Responsibilities Code” (DSC Policy 5.33).** These regulations can be found online at <http://www.dixie.edu/humanres/polstu.html> (then click on the link to DSC Policy 5.33). In particular, you should be aware of your obligations pertaining to academic performance.

3. When completing homework, working together is ok—in fact, I encourage it. However, you should understand that directly copying another person’s work is not always conducive to effective learning. (In other words, put things in your own words, even if the ideas are not entirely yours.) Importantly, cheating on tests (as defined in class) is **not** ok, and if you’re caught, you’ll receive an “F” for the course.

Participation & Homework Policies

1. Your grade will be 70% participation (as defined in this section). Participation includes attendance and homework write-ups. Additionally, bonus points can be earned by writing correct proofs on the final exam.

2. If you miss a day of class, there is a 1 point penalty. If you will be absent for one or more class days, you must ask me for permission to miss those days—beforehand and in writing—so I can decide whether or not to grant you a waiver of the penalty.

3. On each homework assignment, you will be responsible for “writing up” all of the assigned problems. (You may work together, but each student must turn in the assignment in his or her own handwriting.) Failure to turn in a homework write-up on time will result in a 2 point penalty.

4. The goal of your doing homework should be to gain understanding of complex analysis. Therefore, I will randomly choose a problem from each “group” of exercises and judge it for correctness; depending on your work, you will receive 1 point, 0.5 points, or 0 points on each graded question. Graded questions from homework constitute 30% of your grade.

5. There will be a comprehensive final exam. It is scheduled for Monday, April 30th at 2:30 pm (in NIB 135). **Failure to take this exam will result in a failing grade in the course.** Additionally, supplying correct proofs on this exam can earn you up to 10 bonus points.

Grading

There are 100 total points possible. Assuming you incur no participation penalties, you will receive at least 70 of these points. Your grade will be determined according to the percentage of points you earn in this course.

≥ 92% A	≥ 89% A–	≥ 86% B+	≥ 82% B
≥ 79% B–	≥ 75% C+	≥ 70% C	≥ 67% C–
≥ 64% D+	≥ 60% D	< 60% F	

Disability Resource Center

If you suspect or are aware that you have a disability that may affect your success in the course, you are strongly encouraged to contact the Disability Resource Center (DRC) located in the North Plaza Building. The disability will be evaluated and eligible students will receive assistance in obtaining reasonable accommodations. You can call the center at 652-7516.

Website Resources

Library	http://library.dixie.edu/
Writing Center	http://new.dixie.edu/english/dsc_writing_center.php
Testing Center	http://new.dixie.edu/testing/
Tutoring	http://dsc.dixie.edu/tutoring/index.htm
Career Center	http://new.dixie.edu/career/

Communication Policy

Important class and college information, including lecture notes, syllabus changes, etc. for this class, will be sent to either the preferred email account you submitted to Dixie State College when you began school here or to your “Dmail” account. This information includes your DSC bill, financial aid and scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC in general. You will be held responsible for any emailed information sent to you by me or by DSC, so please check your email account often. When trying to get in contact with me, the best option is to email me or call my office phone and leave a message.