MATH 3160-001, Fall 2019

Schedule and Classroom: TH 12:25PM-1:45PM BU C 211

Instructor: Nat Smale  
Office: LCB 203, and JWB 236  
email: smale@math.utah.edu  
Phone: 801-581-7921  
Office Hours: Tuesday 1:45-2:45PM, Wednesday 1:45-2:45PM or by appointment. At these times I will be in LCB 203.

Prerequisite: At least a C grade in Math 2250, or Math 2270 and 2280.

Text: Complex Variables and Applications, 9th ed. by Brown and Churchill. ISBN: 978-0-07-338317-0. The 8th edition has the same material, although the exercises are slightly different.

Course Description: This is an introductory course in complex variables. After a brief review of complex numbers, we will study complex valued functions where the input variable is a complex number. In particular, we will study complex differentiable (also called analytic) functions. These have many remarkable properties, and arise frequently in applications. We will cover the corresponding sections of the text, which are chapters 1 through 6, and part of chapter 7.

Course Materials and Canvas: Announcements, homework assignments, review problems, exam solutions, reading assignments etc... will be posted on the class Canvas page, and you should check this frequently. Go to the main University of Utah website page www.utah.edu. Login using the same student id and password that you use for the Campus Information System. Each week I will post an outline of what material will be covered during the week, and what sections of the text to read. I will also post homework assignments every 7-10 days, to be turned in. Homework scores and exam scores will be posted on canvas.

Homework: Homework assignments will posted every 7-10 days. These are to be turned in and graded. I will make up most of the problems, though some may come from the text. The lowest two homework scores will be dropped.

Exams: There will be two midterm exams, on Thursday September 26, and Thursday November 14. The final exam is comprehensive and on Thursday, December 12 from 10:30AM-12:30AM. For the midterms, I will let you know a week before each exam, what material will be covered. Exams will be closed book, however, you will be allowed one side of one 8.5"by 11" sheet of notes for the midterm exams and two sides of one
sheet of paper for the final exam. Partly because of the vast differences in calculators and to simplify things, calculators, cell phones and other electronic devices will not be allowed on exams.

**Grading:** The grade will be computed as follows:
- Homework (drop lowest 2) 25%
- Exam 1 20%
- Exam 2 20%
- Final Exam 35%

**Tutoring:** There is free tutoring in the Math Center (downstairs in between JWB and LCB) Monday through Thursday from 8AM to 8PM and on Friday from 8AM to 6PM. For private tutoring, you can check the University Tutoring Services, 330 SSB. Also, there is a list of tutors at the Math Department Office, JWB 233.

**Computer Lab:** Also in the Math Center, Room 155C. Link to computer lab is http://www.math.utah.edu/ugrad/lab.html

**Grading Scale:** The grading scale is not precisely determined beforehand, but often ends up being close to the following (but likely will be a couple of points up or down from this): A (90-100), A- (86-89), B+ (81-86), B (76-80), B- (71-75), C+ (66-71), C (60-65), C- (55-61), D (45-54), E (0-44).

**ADA Statement:** The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability Services (CDS), 162 Olpin Union Building, (801)-581-5020. CDS will work with us to make arrangements for accommodations. All information in this course can be made available in alternative format with prior notification to CDS.

**Student Responsibilities:** All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee. http://regulations.utah.edu/academics/6-400.php

**Safety Statement:** “The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important
emergency alerts and safety messages regarding campus safety via text message. For more information regarding safety and to view available training resources, including helpful videos, visit safeu.utah.edu.”