MATH 4200-001, FALL 2014

Time: MWF 11:50AM-12:40PM

Classroom: JWB 333

Instructor: Nat Smale  email: smale@math.utah.edu  Office: LCB 203

Homepage: math.utah.edu/~smale

Office Hours: MWF 1:15-2:15 PM, or by appointment.

Prerequisites: Math 3220, or equivalent.

Course Information: Homework assignments, reading assignments, class announcements, and so forth, will be posted on the class web page. This should be checked regularly. To get there, got to my homepage, and click on the link for the class.

Text: Basic Complex Analysis, 3rd edition, by Marsden and Hoffman.

Course Description: This is a beginning course in complex analysis. After a brief discussion of complex numbers, we will study functions of a complex variable (that is functions defined on the complex numbers and taking values in the complex numbers). In particular, we will look at the class of functions that are complex differentiable on a domain, also called holomorphic or analytic functions. These functions have many remarkable properties, and appear throughout mathematics and its applications. The corresponding material that we will cover in the text is chapters 1 through 4, and parts of 5 and 6, time permitting.

Homework: Homework will be assigned every one to two weeks, is to be turned in, and will be graded. Doing the homework is essential to gaining an understanding of the material, and some time will be spent in class going over homework problems.

Exams: There will be one midterm exam on Wednesday, October 8. There will be a comprehensive final exam on Friday, December 19, from 10:30AM-12:30PM.

Grading: The grade will be computed as follows:  Midterm  25%
                        Homework  40%
                        Final  35%