

Math 241, Complex Manifolds

Spring 2023

TuTh 3:30-5, 187 Dwinelle

Instructor : John Lott

Office : Evans 897

email : lott@math.berkeley.edu

Phone : 642-1299

Office hours : M4-5. If you cannot make these office hours, you can email me to set up an appointment.

Required Text : “Riemann Surfaces” by Simon Donaldson and “Complex Geometry” by Daniel Huybrechts. PDFs are available for free through the library.

Material to be covered : Roughly Chapters 3-5, 7-9 and 12 of Donaldson’s book, and Chapters 2-5 of Huybrecht’s book.

Grading : There will be weekly homework assignments, due at the beginning of class on Tuesdays. Please do not work on the homework together.

Prerequisite : Math 214, Math 215A, and complex analysis on the level of Math 185H or Math 205. If you are considering taking the class and are not sure if you have the prerequisites, please come and talk with me.

Classroom atmosphere : Please do not use electronic devices (smartphones, iPads, laptops) during class unless you are taking notes on an iPad.

Disabilities : If you need accommodations for any physical, psychological, or learning disability, please contact me.