

The Graduate Center of CUNY

Ph.D. Program in Mathematics

Course Description

Spring 2022

Course Title: Functions of a complex variable

Course #: Math 70400

Day & Time: Mondays and Wednesdays: 2PM – 3.30 PM

Instructor Name: Dr. Sudeb Mitra

Contact Information: sudeb.mitra@qc.cuny.edu

Prerequisites: Math 70300 (or a similar course)

Office Hours: Mondays and Wednesdays: 4 pm – 5 PM

Mode: In Person

Course Description: This is a continuation of Math 70300. Topics include: Simple connectedness, Runge's theorem, Mittag-Leffler's theorem, Weierstrass's Factorization Theorem, Weierstrass's theorem, Factorization of the sine function, Green's function, Jensen's formula, Analytic continuation, Little Picard Theorem, Great Picard Theorem, Elliptic functions, and Introduction to Riemann surfaces.