Ph.D. Program in Mathematics

Course Description - Spring 2020

Course Title: Functions of a Complex Variable

Course #: 70400

Time and Location: Mon 11:45am-1:15pm, Wed 2:00pm-3:30pm; Graduate Center 5417

Instructor Name: Dragomir Saric

Contact Information: dragomir.saric@qc.cuny.edu

Pre-Requisites: 70300

Office Hours: Monday 2:00pm-3:00pm, Wednesday 1:00-2:00pm

Description:

This is a continuation of the first semester complex variables course. The topics will include harmonic functions, Poisson integral, Harnack's theorem, Dirichlet problem for the unit disk and multiply connected regions, Runge's theorem, Schwarz's reflection principle, the little and big Picard theorems, Mittag-Leffler's theorem, the Weierstrass Factorization theorem, Blaschke products, Jensen's formula and quasiconformal maps, if time permits.