MATH 5321 Complex Variables II. Three semester hours.

This is the second course on functions of one complex variable. Topics include: conformal mappings, convex functions, the Hadamard Three Circles Theorem, compactness, convergence in the space of analytic functions, Runge's theorem, analytic continuation and Riemann surfaces, harmonic functions, entire functions, and Picard's Theorems. Prerequisite: MATH 5320 Graduate standing and permission of instructor.