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강의시간 : 화, 목 1:00-2:15

강의실 22-403

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**강의내용** : We will study fundamental properties of holomorphic functions. The topics include Cauchy integral formula, conformal mappings and the Riemann mapping theorem, elementary theory of harmonic functions and the Dirichlet problems, construction of holomorphic functions, elliptic functions, analytic continuation, and the Runge approximation. We will cover Chapter 3-8 of the text and some supplementary stuffs from references.

**교재** : L. Alfors, Complex Analysis 3rd Ed., McGraw-Hill, 1979.

## 참고문헌

[1 ] L.C.Evans, Partial Differential Equations, AMS, 1998

[2 ] W.Rudin, Real and Complex Analysis, 3rd Ed., McGraw-Hill, 1987

[3 ] J. Noguchi, Introduction to Complex Analysis, AMS, 1998

**평가**: 중간고사 40%, 기말고사 40%, 과제물 20%