

# COURSE DETAIL

## COMPLEX ANALYSIS

**Country**

United Kingdom - England

**Host Institution**

University of Sussex

**Program(s)**

University of Sussex

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

115

**UCEAP Course Suffix****UCEAP Official Title**

COMPLEX ANALYSIS

**UCEAP Transcript Title**

COMPLEX ANALYSIS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

**Course Description**

This course explores holomorphic functions, Cauchy's theorem and its consequences, power series, integration, differentiation and analysis of convergence, Taylor expansions and circle of convergence, Laurent expansions and, classification of isolated singularities, residue theorem and evaluation of integrals, and Rouché's theorem and the fundamental theorem of algebra.

**Language(s) of Instruction**

English

**Host Institution Course Number**

G5110

**Host Institution Course Title**

COMPLEX ANALYSIS

**Host Institution Campus**

University of Sussex

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Mathematics

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