

COURSE DETAIL

COMPLEX VARIABLES

Country

United Kingdom - England

Host Institution

University of London, Queen Mary

Program(s)

English Universities, University of London, Queen Mary

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

102

UCEAP Course Suffix**UCEAP Official Title**

COMPLEX VARIABLES

UCEAP Transcript Title

COMPLEX VARIABLES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course covers the integral and differential properties of a complex variable. Complex differentiation, Cauchy-Riemann equations, harmonic functions, sequences and series, Taylor's and Laurent's series, and singularities and residues are examined. The class also focuses on complex integration, Cauchy's theorem and consequences, and Cauchy's integral formula and related theorems. Students study residue theorem and the applications used to evaluate integrals and summation of series, along with conformal transformations.

Language(s) of Instruction

English

Host Institution Course Number

MTH5103

Host Institution Course Title

COMPLEX VARIABLES

Host Institution Campus

Queen Mary

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

Mathematical Sciences

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