COURSE DETAIL

ANALYSIS 4: REAL ANALYSIS

Country
United Kingdom - England

Host Institution
University College London

Program(s)
University College London

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Mathematics

UCEAP Course Number
124

UCEAP Course Suffix

UCEAP Official Title
ANALYSIS 4: REAL ANALYSIS

UCEAP Transcript Title
REAL ANALYSIS

UCEAP Quarter Units
6.00

UCEAP Semester Units
4.00

Course Description

This course reinforces and extends analysis of a single variable to topics including uniform convergence. The concept of a metric space is then developed to produce results generalizing those in one variable. Topics include pointwise and uniform convergence, the Weierstrass approximation theorem, orthonormal systems and Fourier Series, normed and metric spaces, Banach contraction mapping theorem, continuity, compactness, and spectral norms.

Language(s) of Instruction

English

Host Institution Course Number

MATH0051

Host Institution Course Title

ANALYSIS 4: REAL ANALYSIS

Host Institution Campus

University College London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

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