

COURSE DETAIL

SEQUENCES AND SERIES

Country

United Kingdom - England

Host Institution

King's College London

Program(s)

King's College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

137

UCEAP Course Suffix**UCEAP Official Title**

SEQUENCES AND SERIES

UCEAP Transcript Title

SEQUENCES & SERIES

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides an introduction to sets and functions: defining sets, subsets, intersections and unions; injections, surjections, bijections.; compositions and inverses of functions; an introduction to mathematical logic and proof: logical operations, implication, equivalence, quantifiers, converse and contrapositive; proof by induction and contradiction, examples of proofs. These ideas are then applied in the context of the real numbers to make rigorous arguments with sequences and series and develop the notions of convergence and limits.

Language(s) of Instruction

English

Host Institution Course Number

4CCM115A

Host Institution Course Title

SEQUENCES AND SERIES

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

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