

COURSE DETAIL

DIFFERENTIAL AND INTEGRAL ANALYSIS

Country

United Kingdom - England

Host Institution

University of London, Queen Mary

Program(s)

University of London, Queen Mary

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

151

UCEAP Course Suffix**UCEAP Official Title**

DIFFERENTIAL AND INTEGRAL ANALYSIS

UCEAP Transcript Title

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UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course provides a basis for differential and integral calculus, examining the theory behind differentiation and integration rather than their applications. The course includes some full proofs, and covers differentiable functions, the algebra of derivatives, and key theorems. Students study integration involving the Riemann integral; the Fundamental Theorem of Calculus and applications, as well as sequences of functions; pointwise and uniform convergence; the Weierstrass M-test; and term-by-term integration of power series.

Language(s) of Instruction

English

Host Institution Course Number

MTH5105

Host Institution Course Title

DIFFERENTIAL AND INTEGRAL ANALYSIS

Host Institution Course Details

<https://qmplus.qmul.ac.uk/mod/data/view.php?d=1041&rid=150031>

Host Institution Campus

QMUL

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

Mathematical Sciences

Course Last Reviewed

2019-2020

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