

# 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**

DIFF&INTEGRAL ANALYS

**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 Campus

QMUL

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Mathematical Sciences

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