

COURSE DETAIL

INTRODUCTION TO REAL ANALYSIS

Country

New Zealand

Host Institution

Victoria University of Wellington

Program(s)

Victoria University of Wellington

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

106

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTION TO REAL ANALYSIS

UCEAP Transcript Title

INTRO REAL ANALYSIS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course is an introduction to the basic techniques of real analysis within the context of single-variable calculus. Topics include a review of the real number system and the completeness axiom, limits of sequences and the algebra of limits; limits of functions and the algebra of limits; continuous functions and their algebraic properties; the intermediate value theorem; differentiable functions and the algebra of differentiation; the mean value theorem and Taylor's theorem; the Riemann integral; and the fundamental theorems of calculus.

Language(s) of Instruction

English

Host Institution Course Number

MATH212

Host Institution Course Title

INTRODUCTION TO REAL ANALYSIS

Host Institution Campus

Wellington

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

Mathematics

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