

# COURSE DETAIL

## ANALYSIS IN HIGHER DIMENSIONS

**Country**

New Zealand

**Host Institution**

University of Auckland

**Program(s)**

University of Auckland

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

113

**UCEAP Course Suffix****UCEAP Official Title**

ANALYSIS IN HIGHER DIMENSIONS

**UCEAP Transcript Title**

HIGHER DIMENSIONS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

By selecting the important properties of distance many different mathematical contexts are studied simultaneously in the framework of metric and normed spaces. Examines carefully the ways in which the derivative generalizes to higher dimensional situations. These concepts lead to precise studies of continuity, fixed points and the solution of differential equations. A recommended course for all students planning to advance in mathematics.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

MATHS 333

### **Host Institution Course Title**

ANALYSIS IN HIGHER DIMENSIONS

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Mathematics

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