

# COURSE DETAIL

## INTRODUCTION TO MULTIVARIABLE CALCULUS

**Country**

Hong Kong

**Host Institution**

Hong Kong University of Science and Technology (HKUST)

**Program(s)**

Hong Kong University of Science and Technology

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

111

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

INTRODUCTION TO MULTIVARIABLE CALCULUS

**UCEAP Transcript Title**

MULTIVARIABLE CALC

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## **Course Description**

This course examines the core ideas and concepts and principles of limits, differentiation, and integration of functions in multiple variables, vector analysis. It teaches students to apply the rigorous, analytical and numeric approach to analyze and solve problems using concepts of multivariable calculus. Course topics include: differentiation in several variables, with applications in approximation, maximum and minimum, and geometry, integration in several variables, vector analysis.

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

English

## **Host Institution Course Number**

MATH2011

## **Host Institution Course Title**

INTRODUCTION TO MULTIVARIABLE CALCULUS

## **Host Institution Course Details**

### **Host Institution Campus**

HKUST, Science

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Mathematics

## **Course Last Reviewed**

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