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 Campus

HKUST, Science

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

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