

# COURSE DETAIL

## OPERATIONS RESEARCH I

**Country**

Hong Kong

**Host Institution**

University of Hong Kong

**Program(s)**

University of Hong Kong

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

110

**UCEAP Course Suffix**

A

**UCEAP Official Title**

OPERATIONS RESEARCH I

**UCEAP Transcript Title**

OPERATIONS RESEARCH

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

### **Course Description**

This course introduces the basic results and techniques of linear programming (LP) and its related topics in operations research. There is an equal emphasis on all three aspects of understanding, algorithms and applications. The course serves, together with a course on network models, as essential concept and background for more advanced studies in operations research. The topics include the simplex method, the dual simplex method, parametric programming, decomposition methods and interior point methods.

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

English

### **Host Institution Course Number**

MATH3901

### **Host Institution Course Title**

OPERATIONS RESEARCH I

### **Host Institution Course Details**

[https://webapp.science.hku.hk/sr4/servlet/enquiry?Type=Course&course\\_code=MATH3...](https://webapp.science.hku.hk/sr4/servlet/enquiry?Type=Course&course_code=MATH3...)

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Mathematics

### **Course Last Reviewed**

2025-2026

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