

# COURSE DETAIL

## QUANTUM MECHANICS

**Country**

Hong Kong

**Host Institution**

University of Hong Kong

**Program(s)**

University of Hong Kong

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

108

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

QUANTUM MECHANICS

**UCEAP Transcript Title**

QUANTUM MECHANICS

**UCEAP Quarter Units**

5.00

**UCEAP Semester Units**

3.30

## Course Description

This course builds on the foundation modern physics course. The course discusses quantum mechanics in the advanced undergraduate level with vigorous mathematical treatment. It serves as a core course for physics major students as well as an elective core for those who are interested to gain a deep understanding of quantum mechanics and to apply related techniques in their own majors. Topics include: particle properties of wave, wave properties of particle, Schrodinger Equation, some solutions to Time Independent Schrodinger Equation, hydrogen atom, spin and many particles system. Text: D.J. Griffiths, INTRODUCTION TO QUANTUM MECHANICS. Assessment: assignments, lab reports, final exam. Prerequisite: modern physics.

### Language(s) of Instruction

English

### Host Institution Course Number

PHYS3351

### Host Institution Course Title

QUANTUM MECHANICS

### Host Institution Course Details

[http://webapp.science.hku.hk/sr4/servlet/enquiry?Type=Course&course\\_code=PHYS33...](http://webapp.science.hku.hk/sr4/servlet/enquiry?Type=Course&course_code=PHYS33...)

### Host Institution Campus

### Host Institution Faculty

### Host Institution Degree

### Host Institution Department

Physics

### Course Last Reviewed

2022-2023

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