

# COURSE DETAIL

## INTRODUCTION TO PARTICLE PHYSICS

**Country**

United Kingdom - England

**Host Institution**

University of London, Queen Mary

**Program(s)**

Summer at Queen Mary

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics

**UCEAP Course Number**

140

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

INTRODUCTION TO PARTICLE PHYSICS

**UCEAP Transcript Title**

INTRO PARTICLE PHYS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

**Course Description**

This course examines the fundamental concepts in particle physics, starting from the basic blocks of matter as we know them before looking at the fundamental forces and experimental methods used in ongoing investigations in the field. It explores the elementary particles and fundamental forces acting between them and the behavior of all known matter, from very small-scale particles to the very large scale of the universe and its composition. Students explore main experimental techniques, from particle accelerators to particle detectors and statistical data analyses.

**Language(s) of Instruction**

English

**Host Institution Course Number****Host Institution Course Title**

INTRODUCTION TO PARTICLE PHYSICS

**Host Institution Course Details****Host Institution Campus**

Queen Mary University of London

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Science and Technology

**Course Last Reviewed**

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