

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 Campus

Queen Mary University of London

Host Institution Faculty

Host Institution Degree

Host Institution Department

Science and Technology

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