

## COURSE DETAIL

### PHYSICS AND UNCERTAINTY: FROM QUANTUM JUMPS TO STOCK MARKET CRASHES

**Country**

United Kingdom - England

**Host Institution**

London School of Economics

**Program(s)**

London School of Economics

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Physics Economics

**UCEAP Course Number**

113

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

PHYSICS AND UNCERTAINTY: FROM QUANTUM JUMPS TO STOCK MARKET CRASHES

**UCEAP Transcript Title**

PHYSICS&UNCERTAINTY

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

**Course Description**

Students in this course explore some of the important conceptual and philosophical questions underlying physics and finance, like: How are assumptions about randomness compatible with observed forms of determinism? How is it possible to seek truth using statistical theories? What does it mean to be an atom? How does the quantum world differ from the everyday world? What explains why physical models have unexpected applications in finance? To what extent do such applications help to underpin how the prices of financial instruments are set? This course will proceed at a conceptual level that is suitable for students of all backgrounds: no background in physics is needed, and there is no advantage to having one.

**Language(s) of Instruction**

English

**Host Institution Course Number**

PH232

**Host Institution Course Title**

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**Host Institution Course Details**

[https://www.lse.ac.uk/resources/calendar2023-2024/courseGuides/PH/2023\\_PH232.htm](https://www.lse.ac.uk/resources/calendar2023-2024/courseGuides/PH/2023_PH232.htm)

**Host Institution Campus**

The Strand

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

**Host Institution Department**

Philosophy, Logic and Scientific Method

**Course Last Reviewed**

2023-2024

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