

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

PHYSICS AND UNCERTAINTY: FROM QUANTUM JUMPS TO STOCK MARKET CRASHES

Host Institution Campus

The Strand

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

Philosophy, Logic and Scientific Method

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