

COURSE DETAIL

MACHINE INTELLIGENCE FOR FINANCE

Country

United Kingdom - England

Host Institution

Imperial College London

Program(s)

Imperial College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Electrical Engineering

UCEAP Course Number

131

UCEAP Course Suffix**UCEAP Official Title**

MACHINE INTELLIGENCE FOR FINANCE

UCEAP Transcript Title

MACH INTELLIG/FIN

UCEAP Quarter Units

5.00

UCEAP Semester Units

3.30

Course Description

This course is driven by time series perspectives and short term statistical behavior, underpinned by digital signal processing and machine learning, which is appropriate for cash assets (stocks, bonds, currencies, portfolios) and futures. It therefore answers the needs of the rapidly changing global financial system which requires financial models to be adaptively inferred from the data. Students gain hands-on experience through structured Python assignments based upon time series models, robust estimators, subspace techniques, portfolio optimization, and data analytics on graphs. There are no particular prerequisites, although knowledge of estimation theory and statistics would be useful.

Language(s) of Instruction

English

Host Institution Course Number

ELEC70103

Host Institution Course Title

MACHINE INTELLIGENCE FOR FINANCE

Host Institution Course Details

<https://view.officeapps.live.com/op/embed.aspx?src=https%3A%2F%2Fintra.net%2Eee%...>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Electrical Engineering

Course Last Reviewed

2025-2026

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