LSE THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

Department of Statistics
Programme Q&A Session

MSc Quantitative Methods for Risk Management

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The Department of Statistics

THE LONDON SCHOOL OF ECONOMICS AND POLITICAL SCIENCE

MSc QMRM at LSE

Run by Probability in Finance & Insurance

World-class training in mathematical, statistical, and machine learning methods for the modelling and analysis of risk in financial markets and beyond.

The core part is organised along the following three pillars:

1. The theory and application of stochastic processes
2. Fundamental statistical methods for risk management
3. Modern computational techniques for challenging problems in quantitative finance and risk quantification

Beyond the core part, you will benefit from five optional courses:

- A wide range of cutting-edge courses in statistics, data science, mathematical modelling, and finance
- Allows you to tailor your degree and make the most of the LSE's world-class Departments of Statistics, Mathematics, and Finance

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See more details in the Programme Regulations, accessed via the LSE Calendar.

MSc QMRM: Programme Components

At LSE we have three terms: **Autumn Term, Winter Term, Spring Term**.

You will follow **eight courses** (0.5 units) and a **pre-sessional course**

The **pre-sessional** is **mandatory**:

- It takes place from Monday 9th Sep to Friday 20th Sep
- It allows you to get up to speed on probability, measure theory, and basics of stochastic processes
- It is not assessed, but there is a voluntary exam at the end

MSc QMRM: Programme Components

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You will follow **eight courses** (0.5 units) and a **pre-sessional course**

Three of your courses are **core courses**:

- ST409 Stochastic Processes (AT)
- ST429 Statistical Methods for Risk Management (AT)
- MA417 Computational Methods in Finance (AT)

  → ST433 Stochastic Simulation, Training and Calibration (WT)

MSc QMRM: Programme Components

At LSE we have three terms: **Autumn Term, Winter Term, Spring Term**.

Five of your courses are **optional courses** (0.5 units): **Course selection** will be open **21st Sept – 6th Oct**

- You will choose your courses from the lists on: https://www.lse.ac.uk/resources/calendar/programmeRegulations/taughtMasters/2023/MScQuantitativeMethodsForRiskManagement.htm
- Maths: Mathematics of the Black and Scholes Theory, Foundations of Interest Rate and Credit Risk Theory, Topics in Fin Math, Machine Learning in Fin Math
- Stats: Financial Statistics, Machine Learning and Data Mining, Deep Learning, Reinforcement Learning
- Finance: Derivatives, Quantitative Methods for Finance and Risk Analysis
- Theory/PhD preparation (Stats): Probability and Mathematical Statistics I and II

Assessment

- You will be exposed to a variety of assessment forms
- Some courses rely on one format, several combine them
- The typical formats are
  - Closed book 2-hour exam in Jan or May
  - Project works (individual or in groups) during or after term
  - Continuous assessment during term

Academic support throughout your studies

Academic Mentor – Programme Director

Programme manager

LSE Life: academic workshops

Language Centre

Academic Support Librarians

Digital Skills Lab

Getting In Touch

Questions about the Department or the MSc Data Science:

Sarah McManus

MSc Programmes Manager

First point of contact for administration

Email: Stats-Msc@lse.ac.uk

Andreas Sojmark

MSc QMRM Programme Director

Academic Mentor

E-mail: A.Sojmark@lse.ac.uk

Questions about your application: Graduate Admissions Office

Search ‘LSE Graduate Admissions’ then go to the Knowledge Base

If your question is not answered, submit an enquiry through the Knowledge Base

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Questions?