

BSc Mathematics with Finance

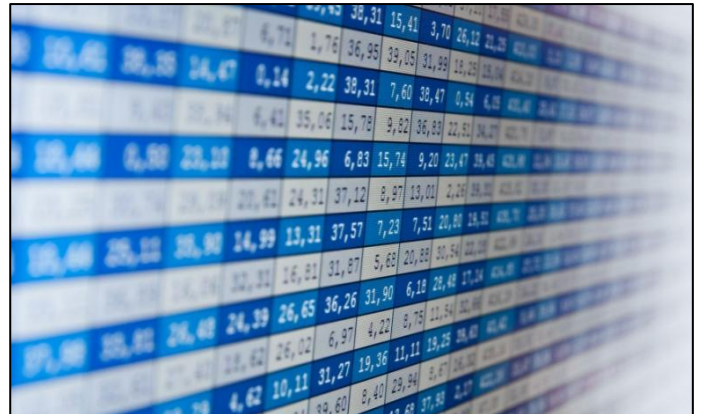
UCAS Code G1N3

This programme covers mathematics and business finance, developing a broad base of mathematical and financial skills. Two thirds of the time is spent on maths, including financial mathematics. The remaining one third is spent studying business finance, accounting and economics.

In **Year 1** you study key topics, including:

- **Financial Mathematics:** modelling of financial and insurance markets with emphasis on the time-value of money and interest rates.
- **Probability and Statistics:** chance and the analysis of data are increasingly important in the modern world.
- **Differential Equations:** the first step in modelling real-world dynamics.
- **Calculus:** a thorough understanding of differential and integral calculus is an essential foundation for all of mathematics.
- **Linear Algebra:** using matrices and vectors, and leading to the abstract notion of a vector space.
- **Economic Theory:** including both micro economics and macro economics.
- **Financial and Management Accounting:** including understanding financial statements of companies.

In **Year 2** you will build on the knowledge acquired, studying specially chosen modules that will integrate aspects of mathematics and finance. Compulsory modules include financial mathematics, business finance, introduction to optimisation, introduction to Markov processes, and statistical methods. Optional modules cover a wide range of topics in mathematics, economics, accounting and statistics.



In **Year 3**, there is freedom of choice to pursue your interests through a wide range of modules devoted to mathematics, business finance, accounting, applied economics and economic theory.

Overall the course will provide you with an integrated programme of finance, economics and accounting combined with mathematics, specifically tailored to the financial services. You will be well prepared for a professional career in financial services – an international industry in which the UK enjoys a prominent role.

Typical Offer

AAB from three A-levels including A in Mathematics, with alternatives involving Further Mathematics, or equivalent.

Taught by

- School of Mathematics (two thirds)
- Leeds University Business School (one third)

Variants

This is a 3 year full time degree. There is the opportunity to do our *Year in Industry* scheme or *Study Abroad* scheme, which turn it into a 4 year degree.

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Structure of Year 1. *This is the current structure – please note that programmes are subject to change.*

Students take 120 credits.

Compulsory Modules:

LUBS1235	Introductory Financial Accounting	10 credits	Semester 1
LUBS1245	Introductory Management Accounting	10 credits	Semester 2
LUBS1950	Economic Theory and Applications 1	20 credits	Semesters 1 & 2
MATH1050	Calculus and Mathematical Analysis	10 credits	Semester 1
MATH1055	Numbers and Vectors	10 credits	Semester 1
MATH1331	Linear Algebra with Applications	15 credits	Semester 1
MATH1400	Modelling with Differential Equations	10 credits	Semester 2
MATH1510	Financial Mathematics 1	15 credits	Semester 2
MATH1715	Introduction to Probability	10 credits	Semester 1
MATH1725	Introduction to Statistics	10 credits	Semester 2

MATHEMATICS DEGREES

Single honours undergraduate degrees:

BSc Mathematics (G100)

MMath, BSc Mathematics (G101)

BSc Actuarial Mathematics (NG31)

BSc Mathematics with Finance (G1N3)

BSc Mathematical Studies (G150)

BSc Mathematics and Statistics (GG13)

Joint honours degrees parented by Mathematics:

BSc Biology and Mathematics (CG11)

BSc Economics and Mathematics (GL11)

BSc Geography and Mathematics (FG81)

BSc Management and Mathematics (GN12)

BSc Mathematics and Music (GW13)

Other subjects available with mathematics:

Chemistry, Computer Science, French, German,

Natural Sciences, Philosophy, Physics

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The information in this leaflet is provided in good faith, on the basis of information available at the time of preparation.

The University reserves the right to revise or withdraw programmes of study.