UNIVERSITY OF LIVERPOOL

BSc (Hons)

Finance and Data Analytics

UCAS code N3I2

Entry requirements	Study mode	Duration	
A level: AAB	Full-time	3 years	Apply by: **13 January 2027** Starts on: **27 September 2027**

About this course

Affiliated with the Chartered Financial Analyst (CFA) Institute, the Chartered Insurance Institute (CII), and partners with the Certificate in Quantitative Finance (CQF) Institute and Chartered Alternative Investment Analyst (CAIA) Association, this programme demonstrates professional rigour and academic excellence across the breadth of modern finance.

Introduction

Study Finance and Data Analytics at Liverpool and prepare for the future of global finance. Based in a global city with a thriving digital and financial services sector, you'll be immersed in an environment that connects learning to real-world innovation and opportunity. With CFA and CII affiliation, and CQF and CAIA partnership, your studies directly align with qualifications employers trust and respect worldwide.

From day one, you'll combine financial theory with practical data skills, learning Python, analysing industry datasets, and turning complex information into clear, actionable insights.

You'll move from mastering the foundations of finance to exploring advanced areas such as data mining and machine learning, building both technical expertise and the adaptability, problem-solving and commercial awareness that employers demand.

With a curriculum that integrates finance and data analytics from the very start, support from state-of-the-art facilities, innovative teaching, and strong industry connections, this programme gives you the edge to succeed in competitive global markets.

What you'll learn

- Corporate finance
- Financial markets
- Financial econometrics
- Python programming
- Data mining and machine learning
- Data visualisation
- Database management
- Computational methods
- Corporate reporting and analysis
- Financial technology

Accreditation

The University of Liverpool Management School holds accreditation from AACSB, AMBA and EQUIS. This makes it one of an elite group of institutions worldwide to hold the gold standard triple accreditation.

The programme holds affiliations and partnerships with three of the world's leading professional bodies, the Chartered Financial Analyst (CFA) Institute, the Chartered Insurance Institute, the Certificate in Quantitative Finance (CQF) Institute, and the Chartered Alternative Investment Analyst (CAIA) Association.

The CFA University Affiliation Programme recognises this degree as academically aligned with the CFA Charter, signalling professional rigour, global benchmarking and a clear pathway towards the qualification. Our affiliation with the CII offers recognition of prior learning with credits toward CII insurance and personal finance qualifications.

As an Academic Partner of the CQF Institute, the programme gives students free membership, industry insights, technical events, and networking with senior professionals. Our partnership with the CAIA further strengthens this professional ecosystem, aligning the curriculum with the CAIA Charter and giving students access to specialist resources in alternative investments, private markets and portfolio management.

Accreditation in detail

AACSB

AACSB Accreditation Standards require a high quality teaching environment, a commitment to continuous improvement, and curricula responsive to the needs of businesses. This achievement means that the Management School meets specific standards of excellence. It also means it's committed to on-going improvement in delivering high quality education.

AMBA

AMBA is the highest standard of achievement in postgraduate business education. MBA students and graduates, business schools and employers all recognise it as a gold standard. AMBA's rigorous criteria and assessment process ensure that only programmes that demonstrate the highest standards in teaching, learning and curriculum design; career development and employability; and student, alumni and employer interaction achieve accreditation.

CAIA

The Chartered Alternative Investment Analyst (CAIA) Association Academic Partnership Programme is a global recognition framework that establishes formal

links between academic degrees and the prestigious CAIA Charter, the leading professional credential for alternative investment professionals. It signals to employers and students that the course is professionally rigorous, globally benchmarked, and provides a direct pathway into the world of alternative asset management, private equity, hedge funds and real assets investing.

CFA

The Chartered Financial Analyst (CFA) Institute University Affiliation Programme is a global recognition scheme that links academic degrees to the CFA charter, one of the most respected professional qualifications in finance and investment. In short, it shows employers and students that the course is professionally rigorous, globally benchmarked, and a direct stepping stone towards the CFA charter.

CII

The Chartered Insurance Institute's recognition of prior learning provides exemptions towards their professional qualifications. The CII is a nationally recognised professional body dedicated to building public trust in the insurance and financial planning profession. Their straplines: standards, Professionalism, and trust, embody a commitment to driving confidence in the power of professional standards: competence, integrity and care for clients.

CQF Institute

The CQF Institute's Academic Partners represent the best in financial education around the world. The Academic Partnership Program is dedicated to supporting the professional development of students studying in the field of finance and quantitative finance.
Students can register as free members and will benefit from a wealth of resources

at the Institute, including leading industry insights via technical conferences and talks, networking with key decision makers and career opportunities from top financial companies.

EQUIS

The School is also accredited by EQUIS, which is the leading international system of quality assessment, improvement and accreditation of higher education institutions in management and business administration. Institutions that are accredited by EQUIS must demonstrate not only high general quality in all dimensions of their activities, but also a high degree of internationalisation and corporate connections.

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Course content

Discover what you'll learn, what you'll study, and how you'll be taught and assessed.

Year one

Build a strong foundation in finance, data analytics, and programming. Develop your analytic reasoning, quantitative methods, and experience working with large data sets.

Take part in practical sessions using tools used in industry, and further develop your communication and teamwork skills. Understand financial concepts and how to solve problems using data.

All modules are compulsory, ensuring a consistent and structured foundation for progression.

Modules

Compulsory modules	Credits
INTRODUCTION TO FINANCE (ACFI103)	15
QUANTITATIVE METHODS FOR ACCOUNTING AND FINANCE (ACFI111)	15
SKILLS FOR THE FINANCE PROFESSIONAL (ACFI118)	15
DATA ANALYTICS AND COMPUTATIONAL METHODS (ACFI108)	30
ECONOMICS OF RISK AND UNCERTAINTY (ACFI131)	15
INTRODUCTION TO THE GRADUATE RECRUITMENT PROCESS (ULMS170)	15

Programme details and modules listed are illustrative only and subject to change. This course has been updated for 2027 entry as part of a review of all our programmes. This

review has considered refining study pathways, strengthening links with employers, integrating generative AI, developing students' research skills, and enhancing alignment with our research strengths. Please note, as at all times, the University reserves the right to make reasonable changes, including to content, entry requirements, or fees, or to discontinue programmes. Applicants will be informed of any significant change.

Year two

Learn how to apply finance theory and data analytics to real-world situations. Experience working independently with financial datasets and develop your econometrics, data management, and visualisation skills.

Core modules explore critical evaluation, technical application and the ethics of financial decision making.

Optional modules allow students to further develop areas of interest.

Modules

Compulsory modules	Credits
FINANCIAL REPORTING AND ANALYSIS (ACFI220)	15
ECONOMETRICS FOR FINANCE 1 (ACFI225)	15
ETHICS AND REGULATIONS IN FINANCE (ACFI230)	15
THEORY OF FINANCE I (ACFI231)	15
DATABASE MANAGEMENT (ACFI232)	15
ECONOMETRICS FOR FINANCE II (ACFI233)	15
THEORY OF FINANCE II (ACFI234)	15

Compulsory modules	Credits
FINANCIAL DATA VISUALISATION (ACFI235)	15

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Year three

There is a focus on applied finance, data analytics and new areas like machine learning and financial technology. Engage with complex financial problems and develop specialist knowledge.

Optional modules allow students to further develop areas of interest.

The final year project combines observations and experience with real data. This is ideal preparation for graduate roles, which look for students with advanced analytical, technical and communication skills.

Modules

Compulsory modules	Credits
DERIVATIVE SECURITIES (ACFI310)	15
PROJECT IN FINANCE (ACFI318)	30
BANKING AND THE FINANCIAL SYSTEM (ACFI330)	15

Compulsory modules	Credits
FINANCIAL RISK MANAGEMENT (ACFI342)	15

Optional modules	Credits
BEHAVIOURAL FINANCE (ACFI311)	15
FINANCIAL CRISES AND DEFAULTS (ACFI319)	15
CORPORATE GOVERNANCE (ACFI320)	15
DATA MINING AND MACHINE LEARNING (ACFI331)	15
FINANCIAL TECHNOLOGY (ACFI332)	15
INSTITUTIONAL INVESTORS AND ALTERNATIVE INVESTMENTS (ACFI333)	15

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Teaching and assessment

How you'll learn

During the lectures, you will be exposed to the key ideas as well as the latest academic research and case studies. You will engage with the subject through a range of activities, including live polls, class activities, and classroom discussions. The knowledge from the lecture is reinforced by small-group seminars where you will put

your knowledge into practice. On several modules, the seminars take the form of practical sessions in the McKenzie computer suite, where you will use data from leading financial sources, e.g. Bloomberg, Datastream, and Compustat, to test key finance theories. This practical approach enables you to not only learn about theory but also to be able to empirically evaluate its practical relevance. Furthermore, the module leader will provide guidance in the form of suggested readings based on academic journals or newspaper articles.

The degree features E-learning and blended learning methods. You will be able to pre-learn and prepare for each teaching session by accessing the lecture materials on the virtual learning environment (VLE) ahead of each lecture. Furthermore, you will have access to the recording of individual sessions, thus allowing you to revise the material at your own pace and time. The VLE will also be used to share digital material, e.g. videos, podcasts, and articles, highlighting the recent business events that are connected to the key concepts discussed in class.

How you're assessed

You will be assessed through a combination of individual and group-based activities. The methods of assessment include the written examination, the employability portfolio, the (pre-recorded) video presentation, the multiple choice question, the poster presentation, the referee report, the pitchbook, and the visualisation dashboard. The exact method(s) of assessments and weight(s) will vary from one module to another.

Liverpool Learning Framework

At Liverpool, we take a distinctive approach to education through the Liverpool Learning Framework. This means teaching that is engaging, inclusive and designed to help you succeed during your studies and beyond.

You'll develop specialist subject knowledge alongside the skills employers value most, including:

- Digital fluency
- Confidence
- Global citizenship

Our curriculum is characterised by the three Liverpool Hallmarks:

- Research-connected teaching - learning informed by the latest ideas and discoveries
- Active learning - taking part, applying knowledge and learning by doing

- Authentic assessment - assessments designed around real-world tasks and challenges

We also embed key priorities across our curriculum, including AI literacy, employability, and sustainability, helping you prepare for the future and make a positive impact in the world.

We're committed to creating a supportive and inclusive learning environment where every student can thrive.

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Careers and employability

Undertaking this Finance and Data Analytics degree will ensure you study a curriculum inspired by the growing demand for graduates in this field developing in you all the skills which are highly valued by employers.

This course will help you develop the knowledge, skills and abilities needed to successfully pursue careers in:

- Asset management
- Banking
- Financial technology (FinTech) firms, large corporations
- Consultancy and financial services firms.

There will also be the possibility to pursue further degrees, including a taught postgraduate degree (e.g. MSc) or a research degree (e.g. PhD under the ESRC 1+3 route).

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Fees and funding

Your tuition fee covers almost everything, but you may have additional study costs to consider, such as books, specialist equipment or field trips.

Tuition fees

UK fees (applies to Channel Islands, Isle of Man and Republic of Ireland)

Full-time place, per year - £10,050
Year in industry fee - £2,010
Year abroad fee - £1,508 (applies to year in China)

International fees

Full-time place, per year - £27,000
Year in industry fee - £1,955
Year abroad fee - £13,500 (applies to year in China)

The UK fees shown are for the academic year 2027/28. The international fees shown are for the academic year 2026/27 and will be subject for change for the academic year 2027/28. Please be advised that tuition fees may increase each year for both UK and international students. For UK students, this will be subject to the government's regulated fee limits.

Tuition fees cover the cost of your teaching and assessment, operating facilities such as libraries, IT equipment, and access to academic and personal support. Learn more about paying for your studies.

Additional costs

We understand that budgeting for your time at university is important, and we want to make sure you understand any course-related costs that are not covered by your tuition

fee. You can find information on the general and subject-specific costs you could expect to incur on our study costs webpage.

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Entry requirements

The qualifications and exam results you'll need to apply for this course.

A levels

AAB

Applicants with the Extended Project Qualification (EPQ) are eligible for a reduction in grade requirements. For this course, the offer is **ABB** from A levels, with **A** in the EPQ.

GCSE

GCSE Mathematics at grade 6 required.

BTEC Level 3 Diploma

D*D* in a Business related subject plus A-Level at grade B.

BTEC Level 3 National Extended Diploma

D*D*D. BTEC qualifications must be in a Business related subject:

- Applied Law
- Applied Psychology
- Business
- Business, Accounting and Finance
- Computing
- Creative Digital Media Production
- Engineering
- Enterprise and Entrepreneurship
- Health and Social Care
- Hospitality
- Information Communications Technology
- Information Technology
- Media
- Public Services

- Strategic Management and Leadership
- Travel and Tourism

International Baccalaureate

34 points overall with no score less than 4 or pass the IB Diploma plus 6,6,5 in 3 HL subjects.

Irish Leaving Certificate

H1, H1, H2, H2, H2, H3.

Scottish Higher/Advanced Higher

Scottish Advanced Highers accepted at AAB.

Welsh Baccalaureate Advanced

B in the Welsh Baccalaureate, plus grades AA at A level.

Access

Pass relevant Access to HE Diploma(Business/Humanities/Social Science) with 45 Level 3 credits with 36 at Distinction and 9 at Merit.

International qualifications

Select your country or region to view specific entry requirements.

If you hold a bachelor's degree or equivalent, but don't meet our entry requirements, you could be eligible for a Pre-Master's course. This is offered on campus at the University of Liverpool International College, in partnership with Kaplan International Pathways. It's a specialist preparation course for postgraduate study, and when you pass the Pre-Master's at the required level with good attendance, you're guaranteed entry to a University of Liverpool master's degree.

Alternative entry requirements

- If your qualification isn't listed here, or you're taking a combination of qualifications, contact us for advice
- If you are returning to learning, have had a disrupted education or are switching career pathways, the one-year Go Higher diploma qualifies you to apply for University of Liverpool arts, humanities and social sciences programmes
- Applications from mature students are welcome.

English language requirements

You'll need to demonstrate competence in the use of English language, unless you're from a majority English speaking country.

We accept a variety of international language tests and country-specific qualifications.

International applicants who do not meet the minimum required standard of English language can complete one of our Pre-Sessional English courses to achieve the required level.

IELTS

6.5 overall, with no component below 5.5

TOEFL iBT

If you took a TOEFL test on or before 20 January 2026, you'll need 88 overall, with minimum scores of listening 17, writing 17, reading 17 and speaking 19. If you took a TOEFL test from 21 January 2026 onwards, when a new scoring system was introduced, you'll need 4.5 overall, with 4 or above in all components. TOEFL Home Edition not accepted.

Duolingo English Test

125 overall, with speaking, reading and writing not less than 105, and listening not below 100

Pearson PTE Academic

61 overall, with no component below 59

LanguageCert Academic

70 overall, with no skill below 60

Cambridge IGCSE First Language English 0500

Grade C overall, with a minimum of grade 2 in speaking and listening. Speaking and listening must be separately endorsed on the certificate.

Cambridge IGCSE First Language English 0990

Grade 4 overall, with Merit in speaking and listening

Cambridge IGCSE Second Language English 0510/0511

0510: Grade B overall, with a minimum of grade 2 in speaking. Speaking must be separately endorsed on the certificate. 0511: Grade B overall.

Cambridge IGCSE Second Language English 0993/0991

0993: Grade 6 overall, with a minimum of grade 2 in speaking. Speaking must be separately endorsed on the certificate. 0991: Grade 6 overall.

Cambridge ESOL Level 2/3 Advanced

176 overall, with no paper below 162

International Baccalaureate English A: Literature or Language & Literature

Grade 5 at Standard Level or grade 5 at Higher Level

International Baccalaureate English B

Grade 7 at Standard Level or grade 6 at Higher Level

Pre-sessional English

Do you need to complete a Pre-sessional English course to meet the English language requirements for this course?

The length of Pre-sessional English course you'll need to take depends on your current level of English language ability.

Pre-sessional English in detail

If you don't meet our English language requirements, we can use your most recent IELTS score, or the equivalent score in selected other English language tests, to determine the length of Pre-sessional English course you require.

Use the table below to check the course length you're likely to require for your current English language ability and see whether the course is available on campus or online.

Your most recent IELTS score	Pre-sessional English course length	On campus or online
6.0 overall, with no component below 5.5	6 weeks	On campus or online
5.5 overall, with no more than one component at 5.0	10 weeks	On campus or online
5.5 overall, with no component below 5.0	12 weeks	Online
5.0 overall, with no component below 5.0	20 weeks	On campus
5.0 overall, with no component below 4.5	30 weeks	On campus
4.5 overall, with no more than one component at 4.0	40 weeks	On campus

If you've completed an alternative English language test to IELTS, we may be able to use this to assess your English language ability and determine the Pre-sessional English course length you require.

Please see our guide to Pre-sessional English entry requirements for IELTS 6.5 overall, with no component below 5.5, for further details.

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