

BSc (Hons)

# Finance and Data Analytics

UCAS code N312

**Entry requirements**

A level: AAB

**Study mode**

Full-time

**Duration**

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.

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## 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
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## 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.

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## 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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^ [Back to top](#)

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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

Develop foundational knowledge of accounting, finance, and data analytics. Learn about key concepts, datasets and their implications for decision-making. You will also begin to explore data analytics and computational methods by using Python to write computer codes to solve finance problems. In addition to technical skills, you will also develop key employability skills that will be important in your future career.

## Modules

Compulsory modules	Credits
INTRODUCTION TO FINANCIAL ACCOUNTING (ACF1101)	15
QUANTITATIVE METHODS FOR ACCOUNTING AND FINANCE (ACF1111)	15
SKILLS FOR THE FINANCE PROFESSIONAL (ACF1118)	15
DATA ANALYTICS (ACF1130)	15
INTRODUCTION TO FINANCE (ACF1103)	15
ECONOMICS OF RISK AND UNCERTAINTY (ACF1131)	15
COMPUTATIONAL METHODS (ACF1132)	15
INTRODUCTION TO THE GRADUATE RECRUITMENT PROCESS (ULMS170)	15

Programme details and modules listed are illustrative only and subject to change. As part of our commitment to continuous improvement, we are currently reviewing all of our programmes. This may include refining study pathways, strengthening links with employers, integrating generative AI, developing students' research skills, and enhancing alignment with our research strengths. The course content currently shown on this page reflects the programme as it is running in September 2026. This page will be updated for students beginning in September 2027 by 1 September 2026 at the latest.

## Year two

You will build upon the foundations of first year to learn about advanced finance theories and evaluate their implications for the business world. You will also learn to theoretically evaluate key concepts and how to leverage financial datasets to evaluate their empirical relevance. In so doing, you will improve your analytical skills and learn to use Tableau to prepare insightful visual elements, combining your knowledge of finance theory, programming, and econometrics.

## Modules

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

You will develop your understanding of the key players in the financial sector, their business models, the key asset classes in financial markets and the impact of technology on the finance sector. Further develop Python programming skills by learning about topics such as data mining and machine learning. You will have the unique opportunity to put your knowledge of finance, Python programming, and data analytics to practice by completing a year-long research project analysing a substantive finance issue. This is a great opportunity to develop and demonstrate key skills desired by graduate employers.

In the first semester, students will select one optional module between Financial Crises and Defaults (ACFI319) and Data Mining and Machine Learning (ACFI331). In the second semester, students will choose two optional modules from the following: Behavioural Finance (ACFI311), Corporate Governance (ACFI320), Financial Technology (ACFI332), Institutional Investors and Alternative Investments (ACFI333).

## Modules

### Compulsory modules

Credits

DERIVATIVE SECURITIES (ACFI310)

15

BANKING AND THE FINANCIAL SYSTEM (ACFI330)

15

<b>Compulsory modules</b>	<b>Credits</b>
FINANCIAL RISK MANAGEMENT (ACFI342)	15
PROJECT IN FINANCE (ACFI318)	30
<b>Optional modules</b>	<b>Credits</b>
FINANCIAL CRISES AND DEFAULTS (ACFI319)	15
DATA MINING AND MACHINE LEARNING (ACFI331)	15
BEHAVIOURAL FINANCE (ACFI311)	15
CORPORATE GOVERNANCE (ACFI320)	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 class room discussions. The knowledge from the lecture is reinforced by small-group seminars where you will put your knowledge into practice.

You are normally expected to prepare work in advance for seminars and may be expected to present work or give presentations from time to time. 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 newspapers 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 giving you the opportunity 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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^ [Back to top](#)

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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).

^ [Back to top](#)

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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

All students have the opportunity to spend a semester studying overseas during their second year, subject to your year one performance. If you elect to study abroad you will need to cover associated travel and living costs. University travel bursaries and subsistence grants are available.

Find out more about the [additional study costs](#) that may apply to this course.

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^ [Back to top](#)

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# Entry requirements

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

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## 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.

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## GCSE

GCSE Mathematics at grade 6 required.

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## BTEC Level 3 Diploma

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

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## 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
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### **International Baccalaureate**

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

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### **Irish Leaving Certificate**

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

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### **Scottish Higher/Advanced Higher**

Scottish Advanced Highers accepted at AAB.

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### **Welsh Baccalaureate Advanced**

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

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### **Access**

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

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### **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.

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## **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.

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## 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.

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### IELTS

6.5 overall, with no component below 5.5

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### 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.

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### Duolingo English Test

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

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### Pearson PTE Academic

61 overall, with no component below 59

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## **LanguageCert Academic**

70 overall, with no skill below 60

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## **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.

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## **Cambridge IGCSE First Language English 0990**

Grade 4 overall, with Merit in speaking and listening

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## **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.

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## **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.

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## **Cambridge ESOL Level 2/3 Advanced**

176 overall, with no paper below 162

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## **International Baccalaureate English A: Literature or Language & Literature**

Grade 5 at Standard Level or grade 5 at Higher Level

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## **International Baccalaureate English B**

Grade 7 at Standard Level or grade 6 at Higher Level

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## **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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[^ Back to top](#)

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