



UNIVERSITY OF
LIVERPOOL

BSc (Hons)

Finance and Data Analytics

UCAS code N3I2

Entry requirements

A level: AAB

Study mode

Full-time

Duration

3 years

Apply by: **29 January 2025**

Starts on: **22 September 2025**

About this course

It is an exciting time to join us, our Finance and Data Analytics programmes are now named academic partners for CQF Institute, the world's largest professional membership organisation for quantitative finance. Our accounting and finance programmes (including Finance and Data Analytics) are ranked 10th from 98 providers in Times Good University Guide 2025.

Introduction

The BSc Finance and Data Analytics blends together the areas of finance and data analytics and equips you with the knowledge, skills, and abilities to follow a range of careers, e.g. finance and consulting.

The first year equips you with the foundational knowledge of finance and introduces you to Python, the programming language. The second year develops your understanding of advanced finance theories and their implications for the industry. You will learn to use Python and industry-leading datasets to empirically test finance theories. You will also learn to use data visualisation techniques to communicate your insights with the audience.

During the third year, you will deepen your knowledge of the finance industry and have the opportunity to take cutting-edge modules such as Data Mining and Machine Learning. You will also develop a range of transferable skills, including flexibility, problem-solving ability, commercial awareness, and communication, which are highly valued by employers.

Studying Finance with Data Analytics at Liverpool will enable you to reach your full potential as you will benefit from our range of industry links and research expertise in addition to being exposed to our cutting-edge curriculum, the state-of-the-art computer room, and innovative teaching methodologies.

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 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.

Accreditation in detail

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.

^ [Back to top](#)

Course content

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

Year one

In the first year of study, you will acquire the foundational knowledge of accounting, finance, and data analytics. During this year, you will learn about the key concepts and datasets and their implications for decision-making. You will also begin to develop an expertise in the area of data analytics and computational methods by using Python to write computer codes to solve finance problems. In addition to your technical abilities, you will also develop key employability skills that will be important in your future career.

Modules

Compulsory modules	Credits
<u>INTRODUCTION TO FINANCIAL ACCOUNTING (ACFI101)</u>	15
<u>QUANTITATIVE METHODS FOR ACCOUNTING AND FINANCE (ACFI111)</u>	15
<u>SKILLS FOR THE FINANCE PROFESSIONAL (ACFI118)</u>	15
<u>DATA ANALYTICS (ACFI130)</u>	15
<u>INTRODUCTION TO FINANCE (ACFI103)</u>	15
<u>ECONOMICS OF RISK AND UNCERTAINTY (ACFI131)</u>	15
<u>COMPUTATIONAL METHODS (ACFI132)</u>	15
<u>INTRODUCTION TO THE GRADUATE RECRUITMENT PROCESS (ULMS170)</u>	15

Programme details and modules listed are illustrative only and subject to change.

Year two

In the second year of study, you will build upon the foundations of the first year to learn about advanced finance theories and evaluate their implications for the business world. You will also develop the ability to not only theoretically evaluate key concepts but also 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. You will achieve this goal by combining your knowledge of finance theory, programming, and econometrics.

Modules

Compulsory modules	Credits
<u>FINANCIAL REPORTING AND ANALYSIS (ACFI220)</u>	15
<u>ECONOMETRICS FOR FINANCE I (ACFI225)</u>	15
<u>THEORY OF FINANCE I (ACFI231)</u>	15
<u>DATABASE MANAGEMENT (ACFI232)</u>	15
<u>ETHICS AND REGULATIONS IN FINANCE (ACFI230)</u>	15
<u>ECONOMETRICS FOR FINANCE II (ACFI233)</u>	15
<u>THEORY OF FINANCE II (ACFI234)</u>	15
<u>FINANCIAL DATA VISUALISATION (ACFI235)</u>	15

Programme details and modules listed are illustrative only and subject to change.

Year three

In the final year, you will have the opportunity to develop your understanding of the key players of the financial sector, their business models, the key asset classes in financial markets and the impact of technology on the finance sector. You will also have the opportunity to further develop your Python programming skills by learning about topics such as data mining and machine learning. Furthermore, 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 semester one, you will select one module out of the following list: Issues in Development Finance (ACFI 317), Financial Crises and Defaults (ACFI 319), and Data Mining and Machine Learning (ACFI 331).

In semester two, you will select two modules out of the following list: Behavioural Finance (ACFI 311), Corporate Governance (ACFI 320), Financial Technology (ACFI 332), and Institutional Investors and Alternative Investments (ACFI 333).

Modules

Compulsory modules	Credits
<u>DERIVATIVE SECURITIES (ACFI310)</u>	15
<u>PROJECT IN FINANCE (ACFI318)</u>	30
<u>BANKING AND THE FINANCIAL SYSTEM (ACFI330)</u>	15
<u>FINANCIAL RISK MANAGEMENT (ACFI342)</u>	15
Optional modules	Credits
<u>ISSUES IN DEVELOPMENT FINANCE (ACFI317)</u>	15
<u>FINANCIAL CRISES AND DEFAULTS (ACFI319)</u>	15
<u>DATA MINING AND MACHINE LEARNING (ACFI331)</u>	15

Optional modules	Credits
<u>BEHAVIOURAL FINANCE (ACFI311)</u>	15
<u>CORPORATE GOVERNANCE (ACFI320)</u>	15
<u>FINANCIAL TECHNOLOGY (ACFI332)</u>	15
<u>INSTITUTIONAL INVESTORS AND ALTERNATIVE INVESTMENTS (ACFI333)</u>	15

Programme details and modules listed are illustrative only and subject to change.

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 Hallmarks

We have a distinctive approach to education, the Liverpool Curriculum Framework, which focuses on research-connected teaching, active learning, and authentic assessment to ensure our students graduate as digitally fluent and confident global citizens.

The Liverpool Curriculum framework sets out our distinctive approach to education. Our teaching staff support our students to develop academic knowledge, skills, and understanding alongside our **graduate attributes**:

- Digital fluency
- Confidence
- Global citizenship

Our curriculum is characterised by the three **Liverpool Hallmarks**:

- Research-connected teaching
- Active learning
- Authentic assessment

All this is underpinned by our core value of **inclusivity** and commitment to providing a curriculum that is accessible to all students.

^ [Back to top](#)

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](#)

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 – £9,535

Year in industry fee – £1,905

Year abroad fee – £1,430 (applies to year in China)

International fees

Full-time place, per year – £25,000

Year in industry fee – £1,905

Year abroad fee – £12,500 (applies to year in China)

The tuition fees shown are correct for 2025/26 entry. Please note that the year abroad fee also applies to the year in China.

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.

[^ Back to top](#)

Entry requirements

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

A levels

AAB

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

35 with no score less than 4

Irish Leaving Certificate

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

Scottish Higher/Advanced Higher

Scottish Advanced Highers accepted at AAB.

Welsh Baccalaureate Advanced

Accepted at grade A or B alongside two A Levels only.

Access

45 credits at Distinction in graded level 3 units in a relevant Diploma.

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.

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

88 overall, with minimum scores of listening 17, writing 17, reading 17 and speaking 19. TOEFL Home Edition not accepted.

TOEFL Paper

Grade 7 at Standard Level or grade 6 at Higher Level

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

LanguageCert

Grade 5 at Standard Level or grade 5 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
5.5 overall, with no component below 5.5	10 weeks	On campus and online options available
5.5 overall, with no more than one component below 5.5, and no component below 5.0	12 weeks	On campus and online options available
5.5 overall, with no component below 4.5	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 below 4.5, and no component below 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.

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.

^ [Back to top](#)

Generated: 27 Mar 2025, 20:25

© University of Liverpool