Programme Specification 2024–2025

Economics, Management, Finance and the Social Sciences (EMFSS)

Data Science and Business Analytics
BSc

Important document – please read

Important information regarding the Programme Specification

About this document

Last revised 19 February 2024

The Programme Specification gives a broad outline of the structure and content of the programme, the entry level qualifications, as well as the learning outcomes students will achieve as they progress. Some of the information referred to in a programme specification is included in more detail on the University of London website. Where this is the case, links to the relevant webpage are included.

Where links to external organisations are provided, the University of London is not responsible for their content and does not recommend nor necessarily agree with opinions expressed and services provided at those sites.

If you have a query about any of the programme information provided, whether here or on the website, registered students should use the *ask a question* button in the student portal otherwise the *Contact Us* button on each webpage should be used.

Key revisions made

Programme specifications are revised annually. The relevant committee of LSE, as part of its annual review of standards, confirms the programme structure and the educational aims and learning outcomes, and advises on any development in student support.

Where changes have been made which may impact on continuing students, these are listed below. For all new students, the programme and general information provided in this document is correct and accurate and will be applicable for the current year.

Significant changes made to the programme specification 2024 2025:

1. University Computer Requirements have been updated.

2. Assessment methods and delivery have been updated.

3. The Student support and guidance section has been updated to include the University of London Careers Service.

4. The Quality evaluation and enhancement section has been updated.

5. Additional terminology has been added and terminology has changed to reflect the number of credits required throughout these regulations. In previous regulations 'full course' and 'half course' has been used. A full course is equivalent to 30 credits. A half course is equivalent to 15 credits.

Terminology

The following language is specific to the EMFSS BSc degrees:

Course	Individual units of the programme are called courses. Each course is a self-contained, formally structured learning experience with a

Programme title and qualifications

Undergraduate degrees of the University of London are awarded with Honours. The award certificate will indicate the level of the academic performance (Honours) achieved by classifying the award. The classification of the degree will be based on the ratified marks from the completed assessments.

The standard classification system for Bachelor's degrees with Honours is:

First-Class; Upper Second-Class; Lower Second-Class; Third-Class.

A Pass Degree is a degree without Honours.

Specific rules for the classification of awards are given in the [Programme Regulations](#), under Scheme of Award.

Programme title

Data Science and Business Analytics

Qualifications

Bachelor of Science in Data Science and Business Analytics

Exit qualifications

Diploma of Higher Education

Certificate of Higher Education

An exit qualification is an intermediate qualification, for which the student may not have registered at the outset but which may be awarded on completion of specific modules/courses (or credit accumulated) in a longer programme of study, if the student leaves the programme or has their registration ceased.

Exit qualifications are awarded at the discretion of the Board of Examiners and once a student has accepted an exit qualification they will not normally be permitted to continue their study of the same award with the University of London.

These exit qualifications are unnamed.

Individual courses

There is no provision for individual courses of the programme to be studied on a stand-alone basis.

Notes

The BSc degree in Data Science and Business Analytics is available through a 12 course Standard Route and a 9 course Graduate Entry Route.

Qualification titles may be abbreviated as follows:

Bachelor of Science – BSc

Diploma of Higher Education – DipHE

Certificate of Higher Education – CertHE

Level of the programmes

The Framework for Higher Education Qualifications of UK Degree-Awarding Bodies (FHEQ) forms part of the UK Quality Code for Higher Education of the Quality Assurance Agency for Higher Education (QAA).

The qualifications are placed at the following Levels of the Framework for Higher Education Qualifications (FHEQ):

Bachelor of Science degree (BSc)	**Level 6**
Graduate Diploma	Level 6
Diploma of Higher Education (DipHE)	Level 5
Certificate of Higher Education (CertHE)	Level 4

Relevant QAA subject benchmarks group(s)

See the QAA website for information

Credit value of courses

Further information about the credit systems used by universities in the UK and Europe is provided by the [Quality Assurance Agency](#) and the [European Credit Transfer and Accumulation System](#).

Where credits are assigned to each course of a programme, credit indicates the amount of learning carried out in terms of the notional number of study hours needed, and the specified Frameworks for Higher Education Qualifications of UK Degree-awarding Bodies (FHEQ) credit level indicates the depth, complexity and intellectual demand of learning involved. The details below indicate the UK credits and the European Credit Transfer and Accumulation System (ECTS) values.

For the Economics, Management, Finance and the Social Sciences suite of programmes, credits are assigned to the courses as follows:

> 30 UK credits or 15 ECTS credits for a full course at level 4, or 15 UK credits or 7.5 ECTS credits for a half course at level 4
>
> 30 UK credits or 15 ECTS credits for a full course at level 5, or 15 UK credits or 7.5 ECTS credits for a half course at level 5
>
> 30 UK credits or 15 ECTS credits for a full course at level 6, or 15 UK credits or 7.5 ECTS credits for a half course at level 6

One UK credit equates to a notional ten hours of study.

Recognition of prior learning

Recognition of prior learning is a generic term for the process by which we recognise and, where appropriate, award credit for learning that has taken place elsewhere, before entry onto this programme of study.

Where the prior learning covered a similar syllabus to a module/course studied elsewhere, credit will be awarded as if you took the University of London module/course.

See the [General Regulations](#) (Section 3) and [Programme Regulations](#) for more rules relating to prior learning.

Details on [how to apply for RPL](#) can be found on our website

This programme allows recognition of prior learning (RPL). A student studying a degree through the Standard Route may apply for RPL for up to 120 credits of 100 courses. A student studying a degree through the Graduate Entry Route may apply for RPL for up to 30 credits of 100 course named on the degree structure. No RPL is permitted for the Certificate of Higher Education in Social Sciences or the Graduate Diplomas.

To be eligible to apply for RPL a student must provide evidence to the University that they have already passed examinations that equate in level, content and standard to the 100 course(s) that form part of the programme. The qualification must have been awarded within the past five years preceding the application. If a student is awarded RPL they do not have to take that particular 100 course as part of their degree.

Entrance requirements

We consider qualifications from around the world. Details are available on the website.

The full list of EMFSS programmes can be found in our Programme Regulations.

Applicants must submit an application in line with the procedures and deadlines set out on the website.

All entrance requirements are set out in detail on the programme page under the Entrance Requirements tab.

General Entrance requirements for undergraduate degrees

Age:

Applicants must normally be at least 17 years of age on or before 30 November in the year of initial registration.

Qualifications:

Applicants must

> have passed qualifications that satisfy category G in the Qualifications for Entrance schedule.
>
> meet any additional programme specific entrance requirements; and
>
> satisfy English language requirements.

Entrance requirements for the Graduate Entry Routes to the undergraduate degrees

Age:

Applicants must normally be at least 17 years of age on or before 30 November in the year of initial registration.

Qualifications:

Applicants must

> have successfully completed a full undergraduate degree or postgraduate qualification from an acceptable institution
>
> meet any additional programme specific entrance requirements; and
>
> satisfy English language requirements.

Applicants with professional qualifications and professional memberships will be considered on an individual basis.

English language requirements

Applicants must satisfy the English language requirements for the 7 years P g0 G[Appl)-3entsApplicants m D

Additional information on English language proficiency tests is given on the website.

Where an applicant does not meet the prescribed English language proficiency requirements but believes that they can demonstrate the requisite proficiency for admission the University may, at its discretion, consider the application.

Internet access and computer specification

Students will require regular access to a portable computer with an internet connection to use the University of London's online resources and systems.

Students must be able to download and install software to their Windows or MacOS device to include secure examination browsers for online assessment purposes (if offered on their programme of study). Depending on the security settings for each assessment, students may be required to have full administrator rights on their computer to install and run the software needed to take part in the assessment. Full administration rights are likely to apply to a computer that they own but not to one provided by their employer, for example.

Computer requirements

The portable computer must have at least the following minimum specification:

Windows: 10 and 11 on 64-bit platforms

MacOS Big Sur (version 11) and higher

CPUs newer than 2011 (Intel Sandy Bridge (Core i3, i5 and i7 or newer)**)**

OpenGL 2.0 graphics driver

Local storage for the recording of proctored examinations (75MB per hour)

Web camera & microphone (internal or external)

A broadband internet connection capable of streaming video and a minimum of 0.15Mbps upload speed.

Minimum device requirements are subject to change and older operating systems may become obsolete over time.

It should also have the following applications installed:

Word processor (for Microsoft Word documents)

A PDF reader (e.g. Adobe)

We are developing further security protocols and therefore students **will** require a mobile device (such as a mobile phone or tablet/iPad) to approve for our services. Full details, including specifications, will be provided ahead of the implementation.

Please note: full mobile access is not available for all programmes. Proctored assessments will not work on any smartphone, tablet, Chromebook, Linux Operating Systems or other mobile device of any kind.

Students with access requirements

The University of London welcomes applications from disabled students and/or those who have access requirements. The University will make every effort to provide reasonable adjustments to enable those with a disability, learning difficulty or access requirements to have the same opportunity as all other students to successfully complete their studies.

The University is committed to managing the application procedure and the programme itself

expand knowledge and understanding of the chosen discipline;

promote analytical, creative and imaginative engagement with theory, research and practice in the chosen discipline;

encourage self-development into professionally organised and interactive individuals by practicing skills of selection, assimilation and communication.

BSc Data Science and Business Analytics

The programme aims to:

develop competence in students in the application of statistical and machine learning techniques at a high level

provide students with a sound knowledge of the principles underlying standard applications of probability and statistics;

provide practical skills of applied data science and business analytics to inform commercial and policy decisions.

The learning outcomes of the programme are as follows:

Knowledge and understanding;

A student will be able to:

formulate and build statistical and algorithmic models in a logical manner.

understand, formulate and use quantitative models arising in social science, business and other contexts.

understand probability theory and the concept of uncertainty.

demonstrate a knowledge and understanding of prediction, classification, regression and clustering.

show a good knowledge and understanding in advanced areas of statistics.

learn and use a variety of statistical software packages and the programming language R and Python to conduct data analysis

apply advanced quantitative techniques to the analysis of large and complex data.

Intellectual and cognitive skills;

A student will be able to:

locate, extract, analyse and draw reasoned conclusions from multiple sources (including electronic sources) of appropriate literature and relevant data and acknowledge and reference these sources appropriately;

critically analyse data and text using quantitative and qualitative techniques;

assess the relative merits of quantitative methodologies and use them appropriately for the problem in hand.

Transferable skills;

A student will be able to:

communicate effectively in a written context;

Past examination papers and examiners' commentaries. These provide an indication of the format of examinations and course-level feedback on completed assessments.

Programme Regulations: these are a set of rules which apply to your programme – students are responsible for ensuring they are familiar with the regulations for their programme.

The Online Library provides a range of e-books, along with full-text and multidisciplinary databases where journal articles, book reviews and reports can be found. The Online Library also has a dedicated homepage for EMFSS students.

University of London library: Registered students may use the resources located within the Senate House library (for a small additional fee).

A University of London email account and web area for personal information management.

Students must make their own arrangements to study with teaching centres which may provide full-time or part-time classes.

Attendance at a teaching centre is a requirement for students first registering on the degrees or Graduate Diplomas from 2020–2021.

Quality evaluation and enhancement

The University of London delivers the majority of its online and distance learning programmes through a collaboration between the University of London Worldwide and University of London federation mem9mBT/F3 10.9odp60 G[nd enh[nd T4 Tm.36 793.62 Tm0 a7fy of Londo