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Important information regarding the Programme Specification

About this document

Last revised 06 August 2019

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 this 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 links to ask a question via the Virtual Learning Environment (VLE).

For the BSc Computer Science programmes, you should note the following terminology:

Module: Individual units of the programme are called modules. Each module is a self-contained, formally structured learning experience with a coherent and explicit set of learning outcomes and assessment criteria.

Core module: Core modules are central to the teaching and learning on the programme and may introduce concepts and ideas that appear in the compulsory and optional modules. Core modules must be passed. There are six core modules on the BSc Computer Science (User Experience) programme.

Compulsory module: A module which must be taken as part of a degree programme.

Optional module: A Level 6 module chosen from a list.

Are you affected by US-imposed restrictions?

Our suite of BSc Computer Science degrees use creative interactive approaches delivered through Coursera, the world’s largest online learning platform, to provide immersive learning experiences.

United States export control regulations prevent Coursera from offering services and content to users in certain countries or regions. More information about which countries or regions are affected can be found here. Coursera must enforce this restriction in order to remain in compliance with US law and, for that reason, we advise that all learners check this information before applying to the programme.

Key revisions made

Programme specifications are revised annually. The quality committee of Goldsmiths, University of London, 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.
Significant changes made to the programme specification 2019-2020:

No significant changes.
Title and name of awards

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 or Ordinary Degree is a degree without Honours.

Specific rules for the classification of awards are given in the Programme Regulations, under Scheme of Award.

Programme name

Computer Science (User Experience)

Award titles

- Bachelor of Science Honours degree in Computer Science (User Experience)
- Bachelor of Science in Computer Science (unclassified)
- Diploma of Higher Education in Computer Science (Exit Award Only)
- Certificate of Higher Education in Computer Science (Exit Award Only)

Intermediate qualifications

The intermediate qualifications for this programme are the Certificates of Higher Education and Diploma of Higher Education as listed above.

An intermediate award or awards may be granted to a student registered on the BSc as they progress through their degree studies. The specific rules are given in the Programme Regulations under Section 1.

The exit qualifications for these programmes are:

- Diploma of Higher Education in Computer Science
- Certificate of Higher Education in Computing Science

An exit qualification is an intermediate qualification, as noted above 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. Students who for academic or personal reasons are unable to complete the BSc may exit with the successful completion of 240 or 120 credits and be awarded a Diploma of Higher Education in Computer Science or a Certificate of Higher Education in Computer Science respectively.
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 resume their study of the same award with the University of London.

**Individual Modules**

There is no provision for individual modules of the programme to be studied on a standalone basis.

**Award titles may be abbreviated as follows:**

Bachelor of Science – BSc
Diploma of Higher Education – DipHE
Certificate of Higher Education – CertHE

**Level of the programmes**

<table>
<thead>
<tr>
<th>Award Title</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science (BSc)</td>
<td>Level 6</td>
</tr>
<tr>
<td>Diploma of Higher Education (DipHE)</td>
<td>Level 5</td>
</tr>
<tr>
<td>Certificate of Higher Education (CertHE)</td>
<td>Level 4</td>
</tr>
</tbody>
</table>


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

- BSc – Level 6
- DipHE – Level 5
- CertHE – Level 4

**Relevant QAA subject benchmarks group**

The subject benchmarks for Computing can be found [here](https://www.qaa.ac.uk).**Awarding body**

University of London

**Registering body**

University of London

**Academic direction**

Goldsmiths, University of London

**Accreditation by professional or statutory body**

Not applicable

**Language of study and assessment**

English
Mode of study

Web supported learning with an online tutor or institution supported learning from a local institution, where this is available. Institutions which support this programme will be listed on the Institutions Directory.

Programme structures

The programme will have two registration points in the year corresponding with start dates for modules.

The BSc programme is a 360 UK credit degree. For the award of a BSc in Computer Science (User Experience) a student must complete:

- one core module and seven compulsory modules at FHEQ Level 4 totalling 120 credits, plus
- eight compulsory modules at FHEQ Level 5 totalling 120 credits, plus
- five specialist core modules, one optional module and a compulsory project at FHEQ Level 6 totalling 120 credits

Maximum and minimum periods of registration

The BSc, via the Direct Entry Route, can be completed in a minimum of three years, subject to module availability. However, students may take up to six years.

Students entering via Performance Based Admissions will have a maximum of three years to complete the two modules required for admission to the full programme. The six year registration period will begin from the point at which they register on the full BSc.

These are flexible programmes which allow students to study at their own pace (either part-time or full-time), adjusting the intensity of the learning to suit their needs.

Credit value of modules

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 modules of a programme, credit indicates the amount of learning carried out in terms of the notional number of study hours needed, and the specified Framework for Higher Education Qualifications in England (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 BSc Computer Science (User Experience) programme:

- modules are 15 UK credits each.
- the final project is worth 30 UK credits

A student awarded a BSc with honours will have accumulated 360 UK credits (180 ECTS credits).
Recognition and accreditation of prior learning (APL)

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 had taken the University of London module/course.

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

This programme allows for accreditation of prior learning. A student studying the degree through the Direct Entry Route may apply for recognition and accreditation of prior learning for up to 120 credits at FHEQ Level 4.

To be eligible to apply for recognition of prior learning a student must provide evidence to the University that they have already passed examinations that both satisfy the required learning outcomes and equate in level, content and standard to the modules(s) that form part of the programme.

The qualification must have been awarded within the past five years preceding the application. If a student’s prior learning is recognised they will not have to take the corresponding module as part of their degree.

Details on how to apply for recognition of prior learning can be found on our website. See the General Regulations (Section 3) and Programme Regulations (Section 2) for more rules relating to recognition and accreditation of prior learning.

Entrance requirements

There are two application points each year corresponding to the two study sessions. Applicants must submit an application in line with the procedures and deadlines set out on the website.

Entry Route 1 – Direct Entry Route

To be eligible to register, applicants must:

- normally be aged 17 or above by the registration deadline of the session in which they will be entering
- satisfy the University of London General Entrance Requirements for an undergraduate programme
- have a qualification equivalent to a pass at UK GCE 'AS' level in a mathematical subject or a UK GCSE/GCE 'O' level in Mathematics at no less than grade B (equivalents can be found on our website).
- satisfy the University of London English Language Requirements
Entry Route 2 – Performance based admission

If applicants do not meet the academic requirements for direct entry, they can apply for the programme via the performance based admission route.

To be eligible to register, applicants must:

- have passed at least four separate subjects at GCSE or GCE O level, with grades A to C, or the equivalent; and
- satisfy the University of London English Language Requirements

To be admitted onto the full BSc programme, applicants must:

- pass both Introduction to Programming I and either Numerical OR Discrete Mathematics with a weighted average of 40% or above;

Where students achieve a mark of 50% or higher in the coursework element for both modules, they will be admitted onto the full BSc programme and permitted to register for further modules in the next study session, subject to any relevant progression rules.

Where students achieve a mark of 49% or below in the coursework element for one or both modules, they may continue to the final assessment. If students achieve a pass in both modules overall, they will be admitted onto the full BSc programme and permitted to register for further modules in the next available session, subject to any relevant progression rules.

Students on the performance based admission route will have three attempts to pass each module. This route helps students to develop the necessary skills to complete the full BSc Computer Science programme successfully.

Full details of entrance requirements are also given on the programme page, under the Requirements tab.

English language requirements

All applicants must satisfy the English language requirements for the programmes. These are set out in detail on the programme page under the Requirements tab. Additional information on English language proficiency tests are 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.

Computer specification and internet access

All students

All students must have regular access to a computer (or mobile device*) with an internet connection to use the University of London website and the VLE. These are where the programme’s study resources are located.

The VLE provides electronic learning materials, networking opportunities, and other resources. Students will also have access to the University of London Online Library.

* Full mobile access is not available for all programmes.

Whether studying on their own or at a Teaching Centre, student should have the minimum computer configuration as follows:
Module specific requirements

Note: The published fees associated with this programme of study do not include the cost of any additional hardware or software purchased. Students are responsible for budgeting for this requirement.

Certain modules may have additional software requirements and students should have the necessary admin rights in order to be able to install new software on their computer. Any software required will always be freely available and compatible with Windows and Mac. Wherever possible, it will also be compatible with GNU/Linux. Further information will be provided via the VLE upon module registration.

Certain modules may also have additional hardware requirements as set out in the table below.

<table>
<thead>
<tr>
<th>Module</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Numerical Mathematics</td>
<td>● A scientific calculator or equivalent</td>
</tr>
<tr>
<td>Mobile Development</td>
<td>● Access to an Android or Apple smart phone that can be connected to a computer using a USB cable</td>
</tr>
</tbody>
</table>
### Programme Specification 2019-2020 Computer Science (User Experience) (BSc)

<table>
<thead>
<tr>
<th>Area</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Games Development</td>
<td>Students will need a computer that matches the specifications for Unity 3D (<a href="https://unity3d.com">https://unity3d.com</a>).</td>
</tr>
<tr>
<td>3D Graphics and Animation</td>
<td>Students will need a computer that matches the specifications for Unity 3D (<a href="https://unity3d.com">https://unity3d.com</a>).</td>
</tr>
<tr>
<td>Virtual Reality</td>
<td>Students will need a computer that matches the specifications for Unity 3D (<a href="https://unity3d.com">https://unity3d.com</a>).</td>
</tr>
<tr>
<td></td>
<td>VR Head Mounted Display with the ability to be used in developer mode.</td>
</tr>
<tr>
<td>Physical Computing and Internet of Things</td>
<td>An Arduino Starter Kit or similar: <a href="https://store.arduino.cc/genuino-starter-kit">https://store.arduino.cc/genuino-starter-kit</a></td>
</tr>
<tr>
<td></td>
<td>Optional:</td>
</tr>
<tr>
<td></td>
<td>- A small kit to make electronics at home (tweezers, cutters, cutting mat, protective glasses)</td>
</tr>
<tr>
<td></td>
<td>- A multimeter</td>
</tr>
</tbody>
</table>

**Note**

Students should ensure they have access to the listed hardware (i.e. an Arduino kit or similar) and have the ability to install the listed software on their computer before registering for these modules.

In the institution-supported model the institution will help to install all necessary software on lab machines where appropriate.

With specific reference to the Arduino kit (or similar), we suggest that the following website should be used as a starting point, though the components may be sourced individually: [https://store.arduino.cc/distributors](https://store.arduino.cc/distributors). Students should use the components with due care and attention as well as in accordance with any instructions provided in the kit. The University of London cannot accept any responsibility for loss or injury sustained in their use.

**Students with specific access requirements**

The University of London welcomes applications from disabled students and/or those who have specific access requirements. The University will make every effort to provide reasonable adjustments to enable those with a disability, learning difficulty or specific 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 to ensure that services are accessible for all students and that an inclusive environment is created. The Admissions team encourages those students with a disability, or others who may need special arrangements to assist in taking examinations (such as separate room or special aids), to complete the relevant section of the application form, or contact the [Inclusive Practice Manager](mailto:InclusivePracticeManager@uol.ac.uk). Requests are considered by a University panel, whose purpose is to ensure that students with disabilities and/or specific access requirements are neither
advantaged nor disadvantaged by such arrangements when compared with other students. These considerations remain separate from the academic selection processes.

For further information, see the Inclusive Practice Policy.

Sources of funding and scholarships

Information about potential sources of funding and scholarships is updated annually and where available is included in the programme web pages.

For further information see the website.

Educational aims and learning outcomes of the programmes

Programme aims

The BSc Computer Science (User Experience) degree is designed to be an innovative online programme and provide students with support through virtual and local learning environments, and the flexibility to study at any time and from anywhere around the globe.

Learning Outcomes

Students who successfully complete the Certificate of Higher Education in Computer Science will be able to:

- Demonstrate knowledge of the main areas of computer science and the ability to apply this within the context of computing applications
- Select and apply essential concepts, principles and practices of computer science in the context of well defined, limited scenarios, using structured arguments to justify the selection and use of tools and techniques
- Develop a simple system to a specification, with documentation
- Show problem solving and evaluation skills, drawing upon supporting evidence
- Demonstrate the ability to produce organised work given appropriate guidance.

Students who successfully complete the Diploma of Higher Education in Computer Science will be able to:

- Demonstrate knowledge and critical understanding of the main areas of computer science and also demonstrate the ability to apply this to the evaluation of computing applications
- Apply a critical understanding of essential concepts, principles and practices of computer science in the context of well-defined scenarios, using structured arguments based on subject knowledge to justify the selection and use of tools and techniques
- Analyse, design and develop a system, with appropriate documentation
- Show problem solving and evaluation skills, draw upon supporting evidence and demonstrate a general understanding of the need for a high quality solution
- Demonstrate the ability to produce organised work (both as an individual and as part of a team) given appropriate guidance

Students who successfully complete the BSc in Computer Science (User Experience) will, in addition to the learning objectives of the Diploma of Higher Education and Certificate of Higher Education, be able to:
- Demonstrate a sound understanding of all the main areas of user experience analysis, design and development and with the ability to exercise critical judgement to the evaluation of user focussed applications.
- Apply a critical understanding of essential concepts, principles and practices of user experience design, and critically evaluate the results, in the context of loosely defined scenarios, using structured arguments based on subject knowledge to justify the selection and use of tools and techniques.
- Produce work involving problem identification and the analysis, design or the development of a system, with appropriate documentation, recognising the important relationships between these
- Show problem solving and critical evaluation skills, draw upon supporting evidence and demonstrate a deep understanding of the need for a high quality solution.
- Demonstrate the ability to produce organised work with minimum guidance.
- Demonstrate the ability to produce a substantial piece of work from problem inception to implementation and documentation

**Learning, teaching and assessment strategies**

The core principles of the learning, teaching and assessment strategy for this programme is outlined below.

**Principle 1: Ensuring students are prepared for study**

Students will be provided with opportunities to sample the learning content of the Computer Science programmes. An online induction will ensure that they are prepared for study and are familiar with the learning environment and sources of support during their student journey.

**Principle 2: An engaging and vibrant learning environment**

All students will have access to the VLE, with learning support and tools enabling them to monitor their progress, assessing fulfilment of learning outcomes and development of skills-based outcomes throughout the curriculum. The learning environment will provide a framework for the level of support selected by students, which involves local and online tuition services.

**Principle 3: Learning content**

The learning content will be designed to provide students with opportunities to engage, and encourage reflective and deep learning, with accessibility a key feature to enable all students to study across a range of mobile and media channels.

**Principle 4: Student support**

All students will have access to the Virtual learning environment, learning content, tools and activities related to their chosen programme of study. Students will be able to select from two modes of study: web supported learning or institution supported learning.

**Principle 5: Flexibility**

To facilitate the requirements of a diverse global community of learners, a core feature of this programme is flexibility in the design of the curriculum at Level 6, where students can specialise in a particular area of Computer Science. Students progress at a pace suitable to their circumstances.
Principle 6: Assessment

A core feature of this programme will be a varied range of learning activities embedded within the learning content for each module, designed to provide feedback to students on their progress towards learning outcomes. Summative assessment methods will be designed to promote retention of knowledge, providing encouragement through tutor feedback, with as wide a range of methods as possible to most effectively assess learning outcomes, within the context of the need for secure and reliable techniques appropriate to flexible learning.

Principle 7: Staff Development

The design, development and delivery of this programme will be supported with training for:

- Academic teams involved in the development of the materials and assessment;
- Module Leaders;
- Tutors and Administrators at teaching institutions.

Assessment methods

Each core and optional module, excluding the final project, has two elements of summative assessment. These will be EITHER a combination of coursework and a written examination, weighted in the ratio 50:50 OR two coursework elements weighted 50:50 or 30:70.

The coursework element(s) may consist of multiple items, online quizzes, one or more writing assignments and/or one or more programming assignments. The written examination is closed book, unseen and is two hours in length.

The final project is summatively assessed by a series of coursework submissions and an unseen, final examination lasting two hours. Coursework accounts for 80% of the final mark and the examination for 20% of the final mark. The coursework submission constitutes multiple, staged deliverables including, but not limited to: a project proposal, a preliminary report, weekly progress logs, a final report and a presentation. The project assessment and the feedback received by the student, is designed to encourage consistent, well-structured activity and progress throughout the project. The exam component consists of general questions about academic best practice, as well as specific questions about the candidate’s own project work.

The grade awarded for each module is based on all the elements of assessment and is subject to the rules for marginal compensation. In order to pass a module a student must achieve at least 35% in each element of assessment and an overall weighted average of 40% for the module.

If students fail a compulsory or optional module with a mark of between 35% and 39%, they may be compensated, and have credit awarded in the same way as for passed modules providing the mean average mark for the Level is 45% or above. Compensation may be applied by the Board of Examiners at the point of classification only. A maximum of 30 credits may be compensated at any given Level.

Written examinations take place in September and March.

Examinations are held at Examination centres throughout the world.

Coursework must be submitted to the VLE by the prescribed deadlines.
Student support and guidance

Key features of the support for students include:

- Student induction resources;
- The VLE containing: self-assessment and student planner tools; comprehensive learning materials; e-resources/e-library; student forums and progress monitoring tools;
- Local institution tutor (for institution supported learners);
- Online student relationship manager and online tutor (for web supported learners).

Quality evaluation and enhancement

The University of London delivers the majority of its flexible and distance learning programmes through a collaboration between the University of London Worldwide and member institutions of the University of London. However some of the flexible and distance learning programmes draw solely on academic input from the University of London, and are delivered without academic lead by a member institution. The policies, partnerships (where applicable) and quality assurance mechanisms applicable for the programmes are defined in the following key documents: The Quality Framework, the Quality Assurance Schedules, Guidelines for Examinations, General Regulations and, for each programme, programme specific regulations.

Awards standards

All University of London qualifications have to align with the Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies to assure appropriate standards for each qualification. In addition, every programme that is developed by a member institution of the University of London (or a consortium with representation by more than one member institution) will be developed to the same standard as would be applied within the institution(s) concerned. Proportionate and robust approval procedures, including external scrutiny and student engagement are in place for all programmes. Learning materials are written and all assessments are set and marked by academic staff who are required to apply the University’s academic standards.

Review and evaluation mechanisms

Some of the key mechanisms in place to assure the standards of all University of London qualifications and the quality of the student experience, include:

- Annual programme reports: produced for all programmes in order to review and enhance the provision and to plan ahead;
- Independent external examiners: submit reports every year to confirm that a programme has been assessed properly and meets the appropriate academic standards;
- Annual student information statistics: prepared for all systematic reporting within the University of London;
- Periodic programme reviews: carried out every 4-6 years to review how a programme has developed over time and to make sure that it remains current and up-to-date.
- Improvements are made as necessary to ensure that systems remain effective and rigorous.
Student feedback and engagement

The Student Experience Survey, carried out every two years, collects feedback from the student body on a range of topics relating to the student lifecycle. The results are considered in a number of different ways, including by the Pro-Vice Chancellor, the programme team, principal committees and departments at the University of London responsible for the different aspects of the student experience. Once the findings have been considered in detail, responses are published from both the University of London and from the individual Programme Directors.

Additional survey activity may also be conducted from time to time through the student portal, by email or from the programme team.

VLEs also provide the opportunity for informal feedback and discussion.

An undergraduate and postgraduate student member is appointed by the University to the majority of committees through an annual appointment round. Some programmes also recruit student members at the programme level. Students are frequently invited to take part in quality review processes such as Periodic Programme Reviews, Programme approval, Thematic Reviews, MOOC review panels and ad hoc focus groups. Opportunities such as these are advertised through social media and on the website. More information can be found on the website.

After graduation

Further study

Successful completion of a BSc programme may serve as preparation for students who wish to go on to take further study in the subject area. Enquiries about further study opportunities should be directed to the University of London Student Advice Centre using this link.

Graduate employment routes

User experience design or UX has grown out of the field of Human-Computer Interaction (HCI), which is about how to design computer systems for use by humans. HCI is a major subfield of computer science, and it has informed the visual design and workflow of computer systems we use every day. HCI draws on a range of hard and soft skills and is a naturally cross-disiplinary subject.

With the BSc Computer Science (User Experience), you will be able to apply for jobs which involve a flair for design, and engagement with end users in a range of sectors, wherever there is a need for effective user interface design. Typical job titles include UX engineer, User Experience Designer and UI designer.

The Alumni Network

Upon graduation, students automatically become members of the University of London Alumni Network, a diverse worldwide community of alumni in more than 180 countries. The Alumni Network can provide past students with lifelong links to the University of London and each other. Benefits include social and networking events, access to local groups, a bi-annual magazine, social networking groups, and the opportunity to become an Alumni Ambassador for the University of London.
For further information, please see [https://london.ac.uk/alumni](https://london.ac.uk/alumni), [www.facebook.com/londonualumni](http://www.facebook.com/londonualumni), [www.instagram.com/_londonu](http://www.instagram.com/_londonu) and [https://www.linkedin.com/school/university-of-london/](https://www.linkedin.com/school/university-of-london/)