



**UNIVERSITY
OF LONDON**

Programme Specification 2018–2019

Please note, there are two Programme Specifications included within this PDF document:

1. BSc and Diploma in Computing and Information Systems *and* Creative Computing (New Regulations), including provision for individual courses
2. Work Experience Entry routes *related to* BSc in Computing and Information Systems and BSc in Creative Computing (New Regulations)





**UNIVERSITY
OF LONDON**

Programme Specification 2018–2019

Computing and
Information Systems
Creative Computing
(New Regulations)

BSc
CertHE
Diploma
and Individual courses

Important document – please read



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Important information regarding the Programme Specification

Last revised 12 April 2018

About this document

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 *Ask a question* tab in the [student portal](#); otherwise the *Contact Us* button on each webpage should be used.

Terminology

The following language is specific to the Computing programmes:

Course: Individual units of a programme are called courses. Each course is a self-contained, formally structured learning experience with a coherent and explicit set of learning outcomes and assessment criteria.

Diploma: References to 'Diploma' in this document relate to the FHEQ Level 4 Diploma in Computing and Information Systems or the Diploma in Creative Computing. Registration for these programmes has been discontinued, and the final examinations for them will take place in 2019-20.

References to the DipHE, or the Diploma of Higher Education in Computing Studies, refers to an exit award available for the BSc programmes.

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.

Any changes that may impact on continuing students are listed below. For all new students, the programme and general information provided in this document is correct and will be applicable for the current year.

Significant changes made to the Programme Specification 2018-2019:

No significant changes.

Title and name of awards

Award names

Computing and Information Systems

Creative Computing

Computing Studies (exit awards only)

Award titles

- Bachelor of Science Honours Degree (BSc)
- Certificate of Higher Education (CertHE)
- Diploma (registration has been discontinued)

Exit awards

- Diploma of Higher Education in Computing Studies (DipHE)
- Certificate of Higher Education in Computing Studies (CertHE)*

Individual courses

There is also provision for individual courses to be studied on a stand-alone basis. Students can select up to two Level 4 courses, without being registered for an award.

Level of the programmes

The Framework for Higher Education Qualifications in England, Wales and Northern Ireland (FHEQ) forms part of the UK Quality Code for Higher Education of the [Quality Assurance Agency for Higher Education](#) (QAA).

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

- BSc – Level 6
- CertHE – Level 4
- Diploma – Level 4 (registration has been discontinued)
- DipHE – Level 5 (exit award only)

Relevant QAA subject benchmarks

Subject benchmarks set out national expectations about standards of degrees in a range of subject areas, as defined by the [Quality Assurance Agency](#).

The subject benchmarks for Computing can be found [here](#).

* Students may be eligible for the award of a CertHE in Computing and Information Systems or a CertHE in Creative Computing if they have successfully completed the four Level 4 courses (120 credits) that comprise the relevant CertHE.

Awarding body

University of London

Registering body

University of London

<https://london.ac.uk>

Academic direction

Goldsmiths, University of London

Accreditation by professional or statutory body

Not applicable

Language of study and assessment

English

Mode of study

Independent or locally supported learning.

CertHE and Diploma students are required to attend a part-time or full-time programme of study at an institution that has been recognised to teach that programme.

The University of London website provides information about and a directory of [Teaching Institutions](#).

Programme structures

The BSc in Computing and Information Systems (New Regulations) degree consists of courses to the value of 360 credits as follows:

- Level 4 - four compulsory full courses (each 30 credits)
- Level 5 - four compulsory full courses (each 30 credits)
- Level 6 - six 15 credit courses chosen from a list of 15 credit course options, plus a compulsory 30 credit Project which is a core course.

The BSc in Creative Computing degree consists of courses to the value of 360 credits as follows:

- Level 4 - four compulsory full courses (each 30 credits)
- Level 5 - four compulsory full courses (each 30 credits)
- Level 6 - three 15 credit courses chosen from a list of 15 credit course options, plus three compulsory 15 credit courses, and a compulsory 30 credit Project which is a core course.

The CertHE in Computing and Information Systems and the CertHE in Creative Computing consist of:

Programme Specification 2018-2019 Computing and Information Systems and Creative Computing (New Regulations) (BSc/CertHE/Diploma/Individual courses)

- Level 4 - four compulsory full courses (each 30 credits)

The Level 4 Diploma in Computing and Information Systems and the Level 4 Diploma in Creative Computing consist of:

- Five compulsory courses
- All Diploma students are also required to follow and pass a first year course in Study Skills in English.

Full details of the Schemes of Award are included in the [Programme Regulations](#).

Exit awards

There is provision for CertHE and DipHE exit awards in the programme. Students cannot register for the DipHE in Computing Studies because this is granted as an exit award only. Exit awards are granted at the discretion of the Board of Examiners and once a student has accepted an exit award they will not be permitted to continue their study of the same programme.

Full details of exit award requirements are included in the [Programme Regulations](#).

Maximum and minimum periods of registration

The maximum and minimum periods of registration, from a student's effective date of registration, are:

BSc in Computing and Information Systems and BSc in Creative Computing

Entry route	Minimum	Maximum
Direct entry	3 years	8 years
Direct entry (where maximum recognition of prior learning has been granted)	2 years	8 years
<i>Progressing from</i> CertHE or Diploma	2 years	8 years, from effective date of registration for the CertHE or Diploma
<i>Transferring from</i> Work Experience Entry Route	3 years	8 years, from effective date of registration for the BSc

CertHE in Computing and Information Systems and CertHE in Creative Computing

Minimum	Maximum
1 year	4 years

Diploma in Computing and Information Systems and Diploma in Creative Computing

Minimum	Maximum
2 years (or 1 year where students meet specific entry requirements)	5 years

Credit-bearing Individual courses

Minimum	Maximum
1 year	2 years

Study materials are made available after registration and on payment of the applicable fee.

Credit value of courses

Information about the credit systems used by universities in the UK and Europe is available in:

The Higher Education Credit Framework for England,
www.qaa.ac.uk/en/Publications/Documents/Academic-Credit-Framework.pdf

The Framework for Higher Education Qualifications in England,
<http://www.qaa.ac.uk/en/Publications/Documents/qualifications-frameworks.pdf>

The European Credit Transfer and Accumulation System (ECTS),
http://ec.europa.eu/education/tools/ects_en.htm

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 a specified FHEQ credit level indicates the depth, complexity and intellectual demand of learning involved. One UK credit equates to a notional ten hours of study. For Computing and Information Systems and Creative Computing, credits are assigned to the courses as follows:

- 30 UK credits or 15 ECTS credits for a full course
- 15 UK credits or 7.5 ECTS credits for a half course

Diploma course CO0001 Mathematics for Business is a foundation level course which is not credit bearing.

Recognition of prior learning

Other institutions may use the terms ‘credit transfer’ or ‘advanced standing’; we use the term ‘recognition of prior learning’. It refers to our acknowledgement that a previously obtained qualification is equivalent in level, content and standard to a course on this programme of study. If you apply for, and are awarded, recognition or prior learning you are considered to have completed the course for the purposes of progression within the programme. We will award you credit as if you had taken the course concerned.

The University of London may recognise prior learning and grant you credit towards the award.

Details on [how to apply for recognition of prior learning](#) can be found on our website. See the [General Regulations](#) and [Programme Regulations](#) for more rules relating to recognition of prior learning.

Entrance requirements

Applicants must submit an application in line with the procedures and deadlines set out on the [website](#).

Details of the programme specific requirements are given on the programme pages, under the Requirements tab:

<https://london.ac.uk/courses/computing-and-information-systems>

<https://london.ac.uk/courses/creative-computing>

We consider qualifications from around the world. Details are available [here](#) and in the [Qualifications for Entrance](#) schedule.

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 registration.

Qualifications:

Applicants must

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

General entrance requirements for Certificates of Higher Education

Applicants must submit an application in line with the procedures and deadlines set out on the [website](#).

Age:

All entrance requirements are set out in detail on the programme page in the [Requirements](#) section.

Qualifications:

Applicants must

- meet programme specific entrance requirements; and
- satisfy English language requirements.

General Entrance Requirements for Individual courses

As for General Entrance Requirements for Undergraduate Degrees, above, except CO1108 where the Mathematics requirement is GCE O-level grade C or equivalent.

English language requirements

Applicants must satisfy the English language requirements for the programme. 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.

English language requirements are given on the programme pages, under the Requirements section:

<https://london.ac.uk/courses/computing-and-information-systems>

<https://london.ac.uk/courses/creative-computing>

Internet access

Students will require regular access to a computer (or mobile device*) with an internet connection to use the University of London website and the Student Portal. These are where many of the programmes' study resources are located.

** Full mobile access to VLE resources is not available for all programmes.*

Computer requirements

Whether studying on their own or at an institution, students will need access to the following equipment and software:

Hardware

The recommended minimum configuration is as follows:

- Processor: 2GHz
- Hard drive: 10GB – free
- Screen resolution: 1024 x 768 colour
- Networking: Network adapter –Ethernet, Fast Ethernet, Gigabit Ethernet
- RAM: 2GB
- Audio output Soundcard: stereo
- Sound card and speakers are also recommended for playing audio materials

At Level 5, for the BSc in Computing and Information Systems, access to a suitable network is very important for full learning benefit. If a student does not have such access, it will not

be impossible for them to complete the degree, but they will not have the same study experience as a student with this access. The highest level of access a student will require for effective study will be as a (temporary) network manager so that they can experiment with configuration. In particular, lack of appropriate network access will affect their ability to study 'Data communications and enterprise networking' in the most effective way possible.

Other machines, apart from those that are PC-compatible, are acceptable provided they run equivalent software.

Software

Students are advised to make use of common operating systems and software, as follows:

- Windows™ or Linux or Macintosh.
- Word processor, spreadsheet and database. No applications are recommended specifically, but under Windows™, an integrated package such as Microsoft Office is sufficient, while under Linux, OpenOffice is adequate.
- The Java SE Development Kit (JDK) version 6 or higher, available for free from oracle.com.
- For Level 6, additional software is required for some courses. This information is given under the course outlines.

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 to ensure that services are accessible for all students and that an inclusive environment is created. Students with a disability, or others who may need access arrangements to assist in taking examinations, should complete the relevant section of the application form, or contact the [Inclusive Practice Manager](#). A separate room or other arrangements may be considered.

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 prospectus web pages.

For further information see www.london.ac.uk/applications/funding-your-study

Educational aims and learning outcomes of the programmes

The educational aims of these programmes are informed by the Computing Subject Benchmark Statement, the QAA Code of Practice, the National Qualifications Framework, the ACM-IEEE Curriculum Guidelines, and the Goldsmiths Teaching and Learning Strategy.

The **BSc, CertHE and Diploma in Computing and Information Systems** are aimed at students who wish to develop careers in information technology management. The programmes are intended to give students the skills to solve technical problems and to determine robust solutions to incomplete or ill-specified scenarios typical of business environments in IT terms. Graduates are well-equipped to perform information system functions for large scale organisations, and to bridge the gap of language and understanding between technical and non-technical management.

The **BSc, CertHE and Diploma in Creative Computing** are aimed at students who wish to develop the ability to solve technical problems and create original works in visual and sound media. BSc students will have the skills to become technically competent creative professionals and to undertake project management and creative development roles in public and private sector organisations. Students will also develop skills in research and apply those skills to a practical project in a creative area and the production of a related project report.

There is a natural progression of skills as students progress through these programmes. On successful completion of the CertHE or Diploma a student will have reached the same stage as a degree student who has completed Level 4 and will have developed a range of fundamental mathematical and computing skills.

For those students studying for the BSc, the purpose of the Level 5 courses is to consolidate the topics of Level 4, especially those topics most needed in the analysis and design of software systems. Students will develop and demonstrate more knowledge and greater understanding as they progress through the programme. At this level, a student will begin to create substantial applications involving graphics and databases.

At Level 6, more specialist optional courses are offered, and students may select those in which they are particularly interested. The Project is the capstone of the degree, and students are expected to demonstrate and develop aspects of what they have learnt from the taught courses, in an extended piece of individual work.

Learning outcomes - BSc in Computing and Information Systems

A. Knowledge and understanding

Successful students should be able to:

A1: demonstrate systematic and critical understanding of key issues underlying computers, software, the Internet, information systems, e-Commerce, databases and algorithms, including coherent and detailed knowledge from specialist options

A2: explain and demonstrate how theoretical models and abstractions underpin reasoning about computing systems

A3: develop and implement complex software systems that meet user requirements using high-level programming languages

A4: demonstrate a detailed knowledge of how computer networks work, appropriate to a range of contexts

A5: use discrete mathematics for practical problem-solving in computing

A6: demonstrate knowledge of object oriented programming approaches, and their value

A7: demonstrate a detailed knowledge of techniques and methods in eliciting user requirements and developing system specifications

A8: utilise e-Commerce concepts in analysing business scenarios

A9: demonstrate understanding of methods for decomposing large problems into solvable sub-problems

A10: explain and demonstrate the importance of evaluation in checking that an implemented computing system meets specifications and that it fulfils its intended purpose (verification and validation)

A11 demonstrate knowledge and understanding of the range of uses of computing systems in business environments and discuss methods of evaluating a system's effectiveness in a given context

A12: give an account of the various roles people undertake in the design and use of socio-technical systems

A13: discuss complex ethical, social and legal issues pertaining to contemporary and future computing systems

Teaching/learning methods and strategies for cognitive abilities

Students will be given the opportunity to acquire these abilities through the subject guides for the courses, the recommended textbooks, further reading and through formative assessments. For example, A1, A2, A4, A5, A7, A11 and A13 are addressed in the Level 4, 5 and 6 subject guides. They are reinforced by being a fundamental part of examples used in the guide, and in individual coursework.

Methods for assessing attainment of cognitive abilities

These abilities are assessed through a mixture of examinations, coursework assignments, and a substantial project in the final year. In particular, A1 is assessed directly by examinations in all three years and by very focused coursework in the first year; A2 is assessed by an examination in the first year and it also forms part of the assessment in coursework and examinations later in the programme; A4 is assessed by examination and coursework in the second year; A5 is called upon throughout the degree; A12 is assessed through various coursework and exams; A3, A9 and A11 are some of the principal criteria in assessing the final year project and on examinations and coursework in several programming and software development courses throughout the programme. Assessments for the final year project and, to a lesser extent for all coursework include criteria regarding original and critical thinking about a subject, understanding the implications of a problem specification, formulating and presenting a clear argument, interpreting material in one's own words, and proficiency at analysis and evaluation.

B. Intellectual and practical skills

Successful students should be able to:

- B1: select and employ appropriate techniques to gather requirements from stakeholders
- B2: write working programs to meet user requirements
- B3: propose IT solutions for business problems and evaluate the fit of computing systems to business requirements
- B4: model requirements and the systems they lead to in an appropriate modelling language
- B5: develop software architectures of some complexity from user requirements and specifications
- B6: test, correct and extend the functionality of existing programs
- B7: explain concepts in distributed computing, resource allocation, and emerging technologies
- B8: discuss and use classic algorithms to solve a range of standard problems, and develop algorithms to solve new problems
- B9: apply a range of design techniques, principles for analysing algorithms and problems, and methods of proving correctness of algorithms
- B10: break down complex problems and select and employ appropriate data structures and algorithms
- B11: select and employ appropriate methods from the software development lifecycle, through requirements to implementation and testing
- B12: carry out substantial independent work through an individual project

Teaching and learning methods for intellectual and practical skills

B1, B4, B5 and B11 are taught in subject guides and associated material in the Virtual Learning Environment, and in recommended further reading. The learning is reinforced by structured coursework and assessed in the examination. B3, B12 and B10 are most especially learnt in the final year project.

Assessment methods for intellectual and practical skills

A combination of unseen examinations, coursework assignments, and the final year project

C. Transferable skills

Successful students should be able to:

- C1: determine the relevant information from disparate sources to identify and address complex issues
- C2: demonstrate confidence in tackling complex problems in a systematic logical manner
- C3: employ information and communications technologies effectively

C4: communicate ideas effectively using appropriate combinations of text, graphics, video, etc.

C5: reason logically and argue persuasively

C6: study and work independently

C7: manage their own learning and work to deadlines effectively

C8: undertake and manage sustained project work to completion

Teaching/learning methods and strategies for transferable skills

Although these abilities are assessed through coursework and examination, considerable benefit will be gained from independent learning undertaken. Much of the coursework, throughout the programme, is designed to build upon these abilities. In particular, students are expected to be able to use libraries and find material to support their coursework and to be able to write up their coursework in a comprehensible way using the English language and diagrams where appropriate.

Methods for assessing attainment of transferable skills

These abilities are assessed throughout the programme. All coursework involves C1 and C3; C1 is assessed directly in a first year course, and it is also, along with C4, part of the assessment of many coursework and the final year project.

Learning outcomes - CertHE in Computing and Information Systems

A. Knowledge and understanding

Successful students should be able to:

A1: display basic knowledge and understanding of the fundamental topics underlying the use of computers, software networks, the Internet and information systems

A2: use discrete mathematics for practical problem-solving in computing

A3: understand object oriented programming approaches

A4: utilise e-Commerce concepts in analysing a business scenario

A5: understand how to implement a simple system corresponding to a limited requirement set

B. Intellectual and practical skills

Successful students should be able to:

B1: write a working program to meet specified user requirements for a simple system

B2: propose e-Commerce solutions for limited business problems

B3: test, correct and extend the functionality of an existing program of limited complexity and size

C. Transferable skills

Successful students should be able to:

C1: determine the relevant information in a specified context for a given problem

C2: solve straightforward problems in a systematic logical manner

C3: employ information and communications technologies effectively

C4: communicate ideas effectively using key methods

C5: reason logically and argue coherently for straightforward scenarios

C6: work independently on well-specified tasks

C7: manage time and work to deadlines on well-specified tasks

Learning outcomes - Diploma in Computing and Information Systems

A. Knowledge and understanding

Successful students should be able to:

A1: display basic knowledge and understanding of the fundamental topics underlying the use of computers, software networks, the Internet and information systems

A2: use discrete mathematics for practical problem-solving in business and computing

A3: understand object oriented programming approaches

A4: utilise e-Commerce concepts in analysing a business scenario

A5: understand how to implement a simple system corresponding to a limited requirement set

B. Intellectual and practical skills

Successful students should be able to:

B1: write a working program to meet specified user requirements for a simple system

B2: propose e-Commerce solutions for limited business problems

B3: test, correct and extend the functionality of an existing program of limited complexity and size

C. Transferable skills

Successful students should be able to:

C1: determine the relevant information in a specified context for a given problem

C2: solve straightforward problems in a systematic logical manner

C3: employ information and communications technologies effectively

C4: communicate ideas effectively using key methods

C5: reason logically and argue coherently for straightforward scenarios

C6: work independently on well-specified tasks

C7: manage time and work to deadlines on well-specified tasks

Learning outcomes - BSc in Creative Computing

A. Knowledge and understanding

Successful students should be able to:

A1: demonstrate systematic and critical understanding of key issues underlying computers, software, the Internet, human perception, digital signal processing, sound and music, and creativity and image making, databases and algorithms, including coherent and detailed knowledge from specialist options

A2: explain and demonstrate how theoretical models and abstractions underpin reasoning about computing systems

A3: develop and implement a substantial digital art-work using high-level programming languages or interactive design tools

A4: evaluate and critique their own and other creative artefacts

A5: develop and implement complex software systems that meet user requirements using high-level programming languages

A6: use discrete and continuous mathematics for practical problem-solving in computing, and apply this to the creative computing paradigm

A7: demonstrate knowledge of object oriented programming approaches, and their value

A8: demonstrate a detailed knowledge of techniques and methods in eliciting user requirements and developing system specifications

A9: demonstrate understanding of methods for decomposing large problems into solvable sub-problems

A10: explain and demonstrate the importance of evaluation in checking that an implemented computing system meets specifications and that it fulfils its intended purpose (verification and validation)

A11: demonstrate knowledge and understanding of the range of uses of computing systems in creative contexts and discuss methods of evaluating a system's effectiveness in a given context

A12: give an account of the various roles people undertake in the design and use of socio-technical systems

A13: discuss complex ethical, social and legal issues pertaining to contemporary and future computing systems

Teaching/learning methods and strategies for cognitive abilities

Students will be given the opportunity to acquire these abilities through the course unit subject guide, the recommended textbook, further reading and through formative assessments. For example, A1, A2, A3 and A8 are addressed in the subject guides. They are then reinforced by being a fundamental part of examples used in the guide, and in individual course work in subsequent years. Acquisition of the remaining cognitive abilities becomes an integral part of the study material, recommended reading and coursework in years two and three.

Methods for assessing attainment of cognitive abilities

These abilities are assessed through a mixture of examinations, coursework assignments, and a substantial project in the final year. In particular, A1 is assessed directly by examinations in all three years and by very focused coursework in the first year; A4 and A5 are assessed by coursework; A3, A4 and A10 are assessed in the final year project; A2, A6 and A8 are assessed through various coursework and exams. Assessments for the final year project and, to a lesser extent for all coursework, include criteria regarding original and critical thinking about a subject, understanding the implications of a problem specification, formulating and presenting a clear argument, interpreting material in one's own words, and proficiency at analysis and evaluation.

B. Intellectual and practical skills

Successful students should be able to:

B1: select and employ appropriate techniques to gather requirements from potential users

B2: model requirements and the systems they lead to in an appropriate modelling language

B3: develop software architectures of some complexity from user requirements and specifications

B4: test, correct and extend the functionality of existing programs, with particular focus on the creative domain

B5: create a substantial computer-based art-work and be able to critique its value

B6: discuss classic algorithms to solve certain common problems, and develop algorithms to solve new problems.

B7: apply general design techniques, principles for analysing algorithms and problems, and basic methods of proving correctness of algorithms.

B8: break down complex problems, with an emphasis on creative computing, and select and employ appropriate data structures and algorithms

B9: select and employ appropriate methods from the software development lifecycle, through requirements to implementation and testing

B10: turn a creative idea into a digital implementation

B11: carry out substantial independent work through an individual project

Teaching and learning methods for intellectual and practical skills

B1-B3 and B5 are taught in subject guides and associated material in the Virtual Learning Environment, and in recommended further reading. The learning is reinforced by structured coursework and assessed in the examination. B10 is developed in coursework. B10 and B11 are most especially learnt in the final year project.

Assessment methods for intellectual and practical skills

A combination of unseen examinations, coursework assignments (B1-B5), and the final year project (all).

C. Transferable skills

Successful students should be able to:

C1: determine the relevant information from disparate sources to identify and address complex issues

C2: demonstrate confidence in tackling complex problems in a systematic logical manner

C3: employ information and communications technologies effectively

C4: communicate ideas effectively using appropriate combinations of text, graphics, video, *etc.*

C5: reason logically and argue persuasively

C6: study and work independently

C7: manage their own learning and work to deadlines effectively

C8: undertake and manage sustained project work to completion

Teaching/learning methods and strategies for transferable skills

Although these abilities are assessed through coursework and examination, considerable benefit will be gained from independent learning undertaken. Much of the coursework, throughout the programme, is designed to build upon these abilities. In particular, students are expected to be able to use libraries and find material to support their coursework and to be able to write up their coursework in a comprehensible way using the English language and diagrams where appropriate.

Methods for assessing attainment of transferable skills:

These abilities are assessed throughout the programme. All coursework involves C1; C2 is assessed directly in all courses, and it is also, along with C4, part of the assessment of many coursework and the final year project. Development of C7 is evidenced by success in coursework and the project.

Learning outcomes - CertHE in Creative Computing

A. Knowledge and understanding

Successful students should be able to:

A1: display basic knowledge and understanding of the fundamental topics underlying the use of computers, software, the Internet and multimedia processing

A2: understand basic principles of colour, sound and image (2D and 3D)

A3: use discrete and continuous mathematics for practical problem-solving in computing

A4: understand object oriented programming approaches

A5: understand how to implement a system corresponding to a straightforward user requirement set

B. Intellectual and practical skills

Successful students should be able to:

B1: write a working program to meet specified user requirements for a simple system

B2: test, correct and extend the functionality of an existing program of limited complexity and size

B3: develop a simple creative artefact and critique its value

C. Transferable skills

Successful students should be able to:

C1: determine the relevant information in a specified context for a given problem

C2: solve straightforward problems in a systematic logical manner

C3: employ information and communications technologies effectively

C4: communicate ideas effectively using key methods

C5: reason logically and argue coherently for straightforward scenarios

C6: work independently on well-specified tasks

C7: manage time and work to deadlines on well-specified tasks

Learning outcomes - Diploma in Creative Computing

A. Knowledge and understanding

Successful students should be able to:

A1: display basic knowledge and understanding of the fundamental topics underlying the use of computers, software, the Internet and multimedia processing

A2: understand basic principles of colour, sound and image (2D and 3D)

A3: use discrete and continuous mathematics for practical problem-solving in business and computing

A4: understand object oriented programming approaches

A5: understand how to implement a system corresponding to a straightforward user requirement set

B. Intellectual and practical skills

Successful students should be able to:

B1: write a working program to meet specified user requirements for a simple system

B2: test, correct and extend the functionality of an existing program of limited complexity and size

B3: develop a simple creative artefact and critique its value.

C. Transferable skills

Successful students should be able to:

C1: determine the relevant information in a specified context for a given problem

C2: solve straightforward problems in a systematic logical manner

C3: employ information and communications technologies effectively

C4: communicate ideas effectively using key methods

C5: reason logically and argue coherently for straightforward scenarios

C6: work independently on well-specified tasks

C7: manage time and work to deadlines on well-specified tasks

Learning outcomes – Certificate of Higher Education in Computing Studies (exit award)

A. Knowledge and understanding

Successful students should be able to:

A1: demonstrate engagement with an essential introduction to computing studies

A2: demonstrate an understanding of the concepts and principles related to key areas of study

A3: have obtained fundamental skills for employment and for further study

B. Intellectual and practical skills

Successful students should be able to:

B1: critically evaluate information and evidence to support conclusions and recommendations

B2: develop proficiency through practice and experiential learning

B3: break down problems and select and employ a limited range of methods to solve

C. Transferable skills

Successful students should be able to:

C1: determine relevant information in a specified context for a given problem

C2: solve straightforward problems in a systematic logical manner

C3: communicate ideas effectively using key methods

C4: work independently on well-specified tasks

C5: manage time and work to deadlines on well-specified tasks

Learning outcomes – Diploma of Higher Education in Computing Studies (exit award)

A. Knowledge and understanding

Successful students should be able to:

A1: demonstrate engagement with an essential introduction to computing studies

A2: demonstrate an understanding of the concepts and principles related to key areas of study

A3: demonstrate a broader understanding and further analytical and technical skills relating to the study of computing

A4: have obtained a range of knowledge and skills in computing to equip them for employment or further study

B. Intellectual and practical skills

Successful students should be able to:

B1: recognise and analyse criteria and specifications appropriate to specific problems and plan strategies for their solution

B2: critically evaluate information and evidence to support conclusions and recommendations

B3: develop increased proficiency through practice and experiential learning

B4: break down problems and select and employ a range of appropriate methods to solve

C. Transferable skills

Successful students should be able to:

C1: organise information and determine relevance in a structured way

C2: solve problems in a systematic logical manner

C3: communicate ideas effectively using a variety of methods

C4: reason logically and argue persuasively

C5: work independently

C6: manage time and work to deadlines effectively

Learning, teaching and assessment strategies

Students can use the resources in the Virtual Learning Environment (VLE) to study independently or as part of a support group formed in the VLE. Additionally, in some countries, students can also choose to pay for educational support at a local teaching institution to benefit from face-to-face tuition. A [Directory](#) of teaching institutions recognised by the University of London for providing study support to students of the International Programmes is provided on the website. To take the CertHE or Diploma, students must study at a teaching institution that is listed as recognised for this purpose.

Students will be provided with subject guides for each course studied. These specially produced study materials are developed by academics appointed by Goldsmiths to guide students through the textbooks. They may be supplemented by support materials such as interactive exercises, audio and animated graphics, and hyperlinked glossaries of key terms.

Past examination papers, as well as examiners' commentaries on past examinations providing generic feedback on assessment, are updated annually and are available to download. In addition, students receive a [Programme Handbook](#) which gives both study advice and practical information such as: study techniques, planning studies, preparing for examinations, and contacts at the University.

The VLE forms an important part of the study experience. It includes electronic study materials, student discussion forums, and instructions on how to submit coursework assignments. The Programme team is active on discussion boards throughout the year, and provides updates such as draft coursework commentaries, a selection of exemplary coursework assignments, *etc.* Interim grades for all coursework assignments are provided, together with the grade distribution indicating how well students have performed overall in the assignment. Detailed individual feedback is currently provided for coursework assignments in three courses.

Assessment criteria for the programme take into account the level at which these skills have been achieved.

Assessment methods

The assessment for most courses is by timed unseen written examination (held at established centres worldwide) and coursework. Students must satisfy the examiners in both elements of the assessment. The overall mark for a course where coursework is required will be a combination of the mark for the written examination and the mark for the coursework, weighted 80:20.

The assessment for the Project consists of a preliminary written report, a final written report and a written examination, weighted 10:65:25 respectively. A student must obtain an overall weighted average mark of 40% or above and pass both the final project report and examination with marks of 40% or above.

The written examinations take place on one occasion each year, normally commencing in May. They are held at established examination centres worldwide.

Full details of the dates of all examinations are available on the [website](#).

Individual courses

A student may choose whether or not to be formally assessed in the credit bearing individual courses for which they are registered. Students who choose to be formally assessed will be examined in the same way as students studying for a full award.

Student support and guidance

The following summarises the support and guidance available to students:

CertHE and Diploma students will receive materials from the institution at which they are registered. Registered BSc students will be provided with study materials by the University of London. Some of the materials and resources listed below can only be found online:

- **Student Guide:** provides information which is common to all students and gives information about matters of importance from the start of a student's relationship with the University of London through to their graduation;
- **The Virtual Learning Environment (VLE):** gives access to materials (including subject guides and assignments);
- **The VLE also includes a range of additional study resources such as:**
 - Links to software that may be downloaded for a course;
 - Additional interactive exercises;
 - Online student café and discussion areas: allow students to communicate with each other and to provide mutual support. The Programme Team is active on the VLE and there is tutor presence on the course discussion pages;
 - Past examination papers and Examiners' commentaries: provide generic feedback on assessment;
 - Audio and animated graphics material that provide additional support for key concepts;
 - Employability skills module: provides guidance on how to manage your career in the future, available through the VLE.
 - A hyperlinked glossary of terms;
- **[Programme Handbook:](#)** tells students how to access available resources and assessment and examinations procedures.
- **Subject guides:** introduce the topics within the syllabus and should be used alongside the textbooks that are recommended. Text books are the main focus of a student's study and some may need to be bought while others may be accessed from a library;
- **[Programme Regulations.](#)**
- **[The Online Library:](#)** provides a range of full-text, multidisciplinary databases where journal articles, book reviews and reports can be found.
- **University of London library:** gives registered students use of the resources located within the Senate House library (for a small additional fee).
- **A University of London email account and web area:** permits personal information management.

Quality evaluation and enhancement

The University of London collaborates with the member institutions to deliver the University of London programmes. The policies, partnerships and systems are defined within the key documents: The Quality Framework, the [Quality Assurance Schedules](#), [Guidelines for Examinations](#), [General Regulations](#) and, for each programme, [programme specific regulations](#).

Parity of award standards

Every programme of study is developed and approved by a member institution of the University of London, or a consortium with representation by more than one academic institution to the same standards and requirements as would be applied in the institution/s concerned.

Learning materials are written and examinations are set and marked by academic staff who are required to apply the University's academic standards.

Review and evaluation mechanisms

Procedures are in place to assure the standards of the award and the quality of the student experience, which include programme development, delivery, management, systematic monitoring and ongoing review and enhancement of all University of London programmes. Improvements are made as necessary to ensure that systems remain effective and rigorous.

- Annual programme reports are produced for all programmes in order to review and enhance the provision and to plan ahead;
- Every year independent external examiners submit reports to confirm that a programme has been assessed properly and meets the appropriate academic standards;
- Annual student information statistics are produced and are referenced in all systematic reporting within the University of London;
- Periodic programme reviews are 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.

Student feedback mechanisms

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.

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VLEs also provide the opportunity for informal feedback and discussion.

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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 at <https://london.ac.uk/current-students/getting-involved>

After graduation

Further study

Successful completion of the CertHE or Diploma allows students to progress to the related BSc or another degree programme. Successful completion of the degree programme may serve as preparation for students who wish to go on to take further study in the subject area. This may be undertaken at Goldsmiths or elsewhere.

Graduates of the University of London who have been awarded a BSc in Computing and Information Systems or a BSc in Creative Computing are eligible for a 30% discount on taught Masters programmes at Goldsmiths, University of London. For further information, please see <https://www.gold.ac.uk/ug/fees-funding/scholarships>

Graduate employment routes

Graduates of the BSc in Computing and Information Systems are well equipped to develop as technically competent IT managers and, beyond that, into managers within IT dependent organisations. Particularly relevant careers include systems analysis, systems design, applications programming, IT consultancy, project management and web development.

Graduates of the CertHE or Diploma in Computing and Information Systems will have the skills to undertake simple specification and implementation roles.

Graduates of the BSc in Creative Computing degree will have developed an understanding of the core software tools, component media and technologies required for interactive media and the issues arising from their integration. They will have the knowledge, capability and skills to develop careers in the computing and cultural industries such as: web development, animation, computing in the cultural sector, systems analysis, systems management and IT consultancy.

Graduates of the CertHE or Diploma in Creative Computing will have the skills to undertake simple specification and implementation roles. In addition, they will have an understanding of issues in design and how computers can assist design.

Careers advice and resources

The University of London's Careers Service can provide confidential advice and guidance appropriate to the diverse needs of students and graduates, at any stage of their career. Advisers can assist on an individual basis (including help with career planning, CV writing and interview technique), through face-to-face, Skype or phone appointments, or through a 30 minute e-Advice service. Students may also make use of the dedicated careers library.

For further information, please see www.thecareersgroup.co.uk

The Alumni Network

Upon graduation, students automatically become members of the University of London Alumni Network, a diverse community of over 100,000 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>, www.facebook.com/londonualumni, www.instagram.com/londonu and <https://www.linkedin.com/school/university-of-london/>



**UNIVERSITY
OF LONDON**

Programme Specification 2018–2019

Work Experience Entry
routes *related to*
BSc in Computing and
Information Systems *and*
BSc in Creative Computing
(New Regulations)

Important document – please read



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Important information regarding this document

Last revised 20 April 2018

About this document

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 *Ask a question* tab in the [student portal](#); otherwise the *Contact Us* button on each webpage should be used.

Terminology

The following language is specific to the Computing programmes:

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

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.

Any changes that may impact on continuing students are listed below. For all new students, the programme and general information provided in this document is correct and will be applicable for the current year.

Significant changes made to the Programme Specification 2018-2019:

No significant changes.

The relationship between the BSc, the Certificate of Higher Education (CertHE), and the Work Experience Entry route

The Work Experience Entry route is not a qualification or an award. It is an entry route that provides access for students who do not fulfil the stated entry requirements for the degree. The Work Experience Entry route is not an entry route to the CertHE.

The BSc and the CertHE are awards or qualifications, obtained after fulfilling the requirements stated in the Programme [Regulations](#).

The CertHE is a qualification in its own right and an alternative entry route to the BSc. A student who does not fulfil the stated entry requirements for the degree may be able to study towards the CertHE. Once the student has completed all of the requirements for the CertHE to be awarded, they may progress to the degree. In this case, unlike the Work Experience Entry route, a CertHE is awarded as well.

In summary

The BSc and the CertHE are awards; the Work Experience Entry route and the CertHE are entry routes to the BSc.

Work Experience Entry route (New Regulations) 2018-2019

The Work Experience Entry route provides an opportunity for those who may not satisfy the University's entrance requirements for the BSc in Computing and Information Systems or the BSc in Creative Computing to gain access to these degrees.

The Work Experience Entry route comprises two full courses. The assessment of each course is a combination of an unseen written examination and coursework.

Level of the Work Experience Entry route

The Work Experience Entry routes are placed at the following level of the Framework for Higher Education Qualifications (FHEQ):

- Level 4

The Framework for Higher Education Qualifications in England, Wales and Northern Ireland (FHEQ) forms part of the UK Quality Code for Higher Education of the [Quality Assurance Agency for Higher Education](#) (QAA).

Body certifying the Work Experience Entry route

University of London

Registering body

University of London

www.london.ac.uk

Academic direction

Goldsmiths, University of London

Language of study and assessment

English

Mode of study

Independent or locally supported learning

Work Experience Entry route structures

The Work Experience Entry route related to the BSc in Computing and Information Systems comprises two 30 credit courses as follows:

- CO1108 Information systems: foundations of e-business
- CO1109 Introduction to Java and object oriented programming

The Work Experience Entry route related to the BSc in Creative Computing comprises two 30 credit courses as follows:

- CO1109 Introduction to Java and object-oriented programming
- CO1112 Creative computing I: image, sound and motion

Maximum and minimum periods of registration

The maximum and minimum period of registration, from a student's effective date of registration, are:

	Minimum	Maximum
Work Experience Entry route	One year	Three years

Study materials are made available after registration and on payment of the applicable fee.

Credit value of courses

Information about the credit systems used by universities in the UK and Europe is available in:

The Higher Education Credit Framework for England,
www.qaa.ac.uk/en/Publications/Documents/Academic-Credit-Framework.pdf

The Framework for Higher Education Qualifications in England,
<http://www.qaa.ac.uk/en/Publications/Documents/qualifications-frameworks.pdf>

The European Credit Transfer and Accumulation System (ECTS),
http://ec.europa.eu/education/tools/ects_en.htm

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 a specified FHEQ credit level indicates the depth, complexity and intellectual demand of learning involved. One UK credit equates to a notional ten hours of study. The details below indicate the UK credits and the European Credit Transfer and Accumulation System (ECTS) values.

For the Work Experience Entry routes related to the Computing and Information Systems and Creative Computing, credits are assigned to the courses as follows:

- 30 UK credits or 15 ECTS credits for each course.

All courses have been designated FHEQ Level 4.

Progression and credit

A student who has successfully completed the Work Experience Entry route by passing the relevant two full courses will be deemed to have satisfied the entrance requirements for the BSc in Computing and Information Systems or the BSc in Creative Computing and may progress to the degree by applying to transfer their registration.

The Work Experience Entry route does not give automatic access to any other award of the University.

Students who transfer to the BSc in Computing and Information Systems or the BSc in Creative Computing will be credited with those courses passed as part of the Work Experience Entry route.

Recognition of prior learning

Prior learning will not be recognised or accredited for the Work Experience Entry route.

Entrance requirements

Applicants must submit an application in line with the procedures and deadlines set out on the [website](#).

Details of the Work Experience Entry route entrance requirements are given on the programme page, under the Requirements section:

<https://london.ac.uk/courses/computing-and-information-systems>

<https://london.ac.uk/courses/creative-computing>

English language requirements

Applicants must satisfy the English language requirements for the programme.

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.

English language requirements are given on the programme page, under the Requirements section:

<https://london.ac.uk/courses/computing-and-information-systems>

<https://london.ac.uk/courses/creative-computing>

Internet access

Students must have regular access to a computer (or mobile device*) with an internet connection to use the University of London website and the Student Portal. These are where many of the programmes' study resources are located.

** Full mobile access to VLE resources is not available for all programmes.*

Computer requirements

Whether studying on their own or at an institution, students will need access to the following equipment and software.

Hardware

The recommended minimum configuration is as follows:

- Processor: 2GHz
- Hard drive: 10GB – free
- Screen resolution: 1024 x 768 colour
- Networking: Network adapter – Ethernet, Fast Ethernet, Gigabit Ethernet
- RAM: 2GB
- Audio output Soundcard: stereo
- Sound card and speakers are also recommended for playing audio materials.

- Other machines, apart from those that are PC-compatible, are acceptable provided they run equivalent software.

Software

Students are advised to make use of common operating systems and software, as follows:

- Windows™ or Linux or Macintosh.
- Word processor, spreadsheet and database. No applications are recommended specifically, but under Windows™, an integrated package such as Microsoft Office is sufficient, while under Linux, OpenOffice is adequate.
- The Java SE Development Kit (JDK) version 6 or higher, available for free from oracle.com.

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 to ensure that services are accessible for all students and that an inclusive environment is created. Students with a disability, or others who may need access arrangements to assist in taking examinations, should complete the relevant section of the application form, or contact the Inclusive Practice Manager. A separate room or other arrangements may be considered.

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.

Sources of funding and scholarships

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

For further information see www.london.ac.uk/applications/funding-your-study

Educational aims and learning outcomes of the programmes

The educational aims of these programmes are informed by the Computing Subject Benchmark Statement, the QAA Code of Practice, the National Qualifications Framework, the ACM-IEEE Curriculum Guidelines, and the Goldsmiths Teaching and Learning Strategy.

The **BSc in Computing and Information Systems** is aimed at students who wish to develop careers in information technology management. The programme is intended to give students the skills to solve technical problems and to determine robust solutions to incomplete or ill-specified scenarios typical of business environments in IT terms. Graduates are well-equipped to perform information system functions for large scale organisations and to bridge the gap of language and understanding between technical and non-technical management.

Graduates of the BSc in Computing and Information Systems are well equipped to develop as technically competent IT managers and, beyond that, into managers within IT dependent organisations. Particularly relevant careers include systems analysis, systems design, applications programming, IT consultancy, project management and web development. In addition to these vocational benefits, successful completion of the BSc also prepares graduates for a wide range of postgraduate degrees computing and related areas.

The **BSc in Creative Computing** is aimed at students who wish to develop the ability to solve technical problems and also to create original works in visual and sound media.

BSc students will have the skills to become technically competent creative professionals and to undertake project management and creative development roles in public and private sector organisations. Students will also develop skills in research and apply those skills to a practical project in a creative area and the production of a related project report.

Graduates of the BSc in Creative Computing will have developed an understanding of the core software tools, component media and technologies required for interactive media and the issues arising from their integration. They will have the knowledge, capability and skills to develop careers in the computing and cultural industries such as: web development, animation, computing in the cultural sector, systems analysis, systems management and IT consultancy. Successful completion of the BSc also prepares students for a wide range of postgraduate degrees, including specialisms, such as Computer Games.

For those students studying for the BSc, the purpose of the Level 5 courses is to consolidate the topics of Level 4, especially those topics most needed in the analysis and design of software systems. Students will develop and demonstrate more knowledge and greater understanding as they progress through the programme. At this level, a student will begin to create substantial applications involving graphics and databases. At Level 6, more specialist optional courses are offered, and students may select those in which they are particularly interested. The Project is the capstone of the degree, and students are expected to demonstrate and develop aspects of what they have learnt from the taught courses, in an extended piece of individual work.

Learning outcomes - Work Experience Entry route related to the BSc Computing and Information Systems

Students successfully completing the Work Experience Entry route in Computing and Information Systems should:

- demonstrate an understanding of essential concepts and principles related to information systems and programming in Java;
- be able to communicate ideas and findings in a reliable and structured way; and
- have obtained knowledge and skills to equip them for entry to the BSc in Computing and Information Systems.

Learning outcomes - Work Experience Entry route related to the BSc Creative Computing

Students successfully completing the Work Experience Entry route in Creative Computing should:

- demonstrate an understanding of essential concepts and principles related to creative computing for image, sound and motion and programming in Java;

- be able to communicate ideas and findings in a reliable and structured way; and
- have obtained knowledge and skills to equip them for entry to the BSc in Creative Computing.

Learning, teaching and assessment strategies

Students can use the resources in the Virtual Learning Environment (VLE) to study independently or as part of a support group formed in the VLE. Additionally, in some countries, students can also choose to pay for educational support at a local teaching institution. A [Directory](#) of teaching institutions recognised by the University of London for providing study support to students of the University of London is provided on the website.

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Assessment criteria for the programme take into account the level at which these skills have been achieved.

Assessment methods

The assessment for courses of the Work Experience Entry routes is by unseen written examination (held at established centres worldwide) and coursework. Students must satisfy the examiners in both elements of the assessment. The overall mark for a course where coursework is required will be a combination of the mark for the written examination and the mark for the coursework, weighted 80:20.

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