


# BSc (Hons) Computer Science with Combined Studies

## Programme Specification

## 2026-2027

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## 1. INTRODUCTION

This document describes the **BSc (Hons) Computer Science with Combined Studies** awarded by Richmond American University London, using the protocols required by *The Frameworks for Higher Education Qualifications of UK Degree-Awarding Bodies* (QAA, 2024)

The degree is delivered within the framework of a US Liberal Arts undergraduate degree programme. Typically, students are admitted with the equivalent of 24 US/ 96 UK RQF Level 3 credits and take the 120 US/ 480 UK credit programme over three years.). Each undergraduate credit is equivalent, approximately, to 1 classroom contact hour per 15-week semester and students work to a 16 US credit semester structure. On this basis, students are required to earn a total of a minimum 120 US academic credit hours in order to complete their degrees.

The degrees are also articulated in terms of UK Regulatory Frameworks, chiefly the *FHEQ* and the *Higher Education Credit Framework for England*. Each course has been assigned to an appropriate level on the *FHEQ*, based on the course's learning outcomes and assessment strategies (note that the courses comprising the first year of the 4-year US undergraduate degree are normally at RQF Level 3). US undergraduate credit can generally be translated to ECTS and UK CATS credits in the following manner: 1 US credit = 2 ECTS credits = 4 UK CATS credits. So, a US degree of 120 credits would translate as 240 ECTS credits and 480 UK CATS credits (with a minimum of 360 UK CATS credits at Levels 4-6 on the FHEQ).

**Please note: This specification provides a concise summary of the main features of the programme and the learning outcomes that a typical student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided.**

**More detailed information on the learning outcomes, content, and teaching, learning and assessment methods of each course can be found in course specification documents and syllabi.**

**The accuracy of the information contained in this document is reviewed by the University and may be verified by the Quality Assurance Agency for Higher Education.**

## 2. OVERVIEW

| | |
|---|---|
| **Programme/award title(s)** | BSc (Hons) Computer Science with Combined Studies |
| **Teaching Institution** | Richmond American University London |
| **Awarding Institution** | Richmond American University London |
| **Date of last validation** | 27 January 2025 |
| **Next revalidation** | Spring 2030 |
| **Credit points for the award** | 120 US Credits<br>480 UK Credits at *FHEQ* Levels 3-6 (96 at Level 3; 128 at Level 4; 128 at Level 5; 128 at Level 6) |
| **UCAS Code** | C100 |
| **Programme start date** | September 2025 |
| **Underpinning QAA subject benchmark(s)** | QAA Subject Benchmark: Computing (March 2022) |
| **Professional/statutory recognition** | n/a |
| **Language of Study** | English |
| **Duration of the programme for each mode of study (P/T, FT, DL)** | FT |
| **Dual accreditation (if applicable)** | Middle States Commission on Higher Education (First accredited 1981; renewed 1996, 2006, 2016).<br>OfS - UK Taught Degree awarding powers, registered provider with the UK Office for Students.<br>QAA – Higher Education Review (AP) 2017 |
| **Date of production/revision of this specification** | July 2025 (see chart at the end of this document for list of revisions) |

## 3. ABOUT THE PROGRAMME

The **BSc (Hons) Computer Science with Combined Studies** degree aims to provide students with a broad range and knowledge in the general areas of computer science such as Programming, Systems Architecture, Data and Algorithms, Programming for Applications, Ethical and Sustainable Computing, Cyber Security, Human Computer Interaction, Project Management for IT , AI for Games, Web Application Development, completed by a Senior Project and an optional Internships to provide students with an opportunity to develop specialisms in the last year of their degree. This degree programme enables Computer Science students to gain the skills and knowledge required to work in programming, software engineering, web development, data analysis, cyber security and general IT related employment in the private or public sector. Students acquire a solid foundation in generic computing technology and specialised contextual knowledge in programming throughout the course of their studies.

**BSc (Hons) Computer Science with Combined Studies** degree enjoys several distinctive features. The programme is staffed by an international faculty delivering courses to an international student body. The small class sizes across our curriculum ensure that we get to know the students. This, and our personalised academic advising system make an important contribution to the quality of learning, as well as, providing plenty of opportunities for pastoral care as and when needed.

Another distinctive feature of our programme is its strong emphasis on the liberal arts tradition. Our graduates in computer science benefit from courses from the arts, humanities, social and natural sciences. Exposure to a selection of these courses at levels running all the way from foundation (freshman) to third (junior) years. This builds greater confidence and employability skills.

Some of our students choose to select a full-time, semester-long internship programme (either in the UK or internationally). These junior and senior students generally are expected to have attained a B- grade average before their applications can be considered. Our internship office has dedicated staffing who enjoy a close working relationship with students, faculty and the many organisations with whom they have links.

## 4. MISSION

The Computer Science Major aims to prepare its students, through education and training, for work-place opportunities in Computer Science, and postgraduate courses in its related fields, both in the UK and internationally. In pursuit of this, the Computer Science Major aims to encourage its students to become independent thinkers and develop strong analytical skills.

## 5. PROGRAMME STRUCTURE

**BSc (Hons) Computer Science with Combined Studies**

A normal course load per academic year is 32 US credits, equivalent to 128 UK credits. Students complete 128 UK credits at Levels 4, 5 and 6.

Please note that students must complete all Liberal Arts requirements AND the minimum credits stated at each FHEQ level.

Black = Major requirements
Blue = Liberal Arts Core
Green = Elective

| LOWER-DIVISION REQUIREMENTS | | | |
|---|---|---|---|
| | | Credits | |
| Level | Course Title | US | UK |
| XXX 3XXX | Transfer Credit from L3 quals | 4 | 16 |
| XXX 3XXX | Transfer Credit from L3 quals | 4 | 16 |
| XXX 3XXX | Transfer Credit from L3 quals | 4 | 16 |
| XXX 3XXX | Transfer Credit from L3 quals | 4 | 16 |
| XXX 3XXX | Transfer Credit from L3 quals | 4 | 16 |
| XXX 3XXX | Transfer Credit from L3 quals | 4 | 16 |
| **RQF Level 3 CREDIT TOTALS** | | **24** | **96** |
| COMP 4101 | Introduction to Programming | 4 | 16 |
| COMP 4103 | Systems Architecture | 4 | 16 |
| COMP 4102 | Introduction to Computer Networks | 4 | 16 |
| **Complete L4 Academic Literacies required course:** | | 4 | 16 |
| LIBA 4301 | Academic Research and Writing | | |
| **Choose one L4 Arts/Humanities course from the following:** | | 4 | 16 |
| COMM 4103 | Introduction to Intercultural Communication | | |
| ADPR 4101 | Introduction to Advertising, PR and Media | | |
| COMM 4102 | Introduction to Content Creation | | |
| LANG 4101 | Korean Language and Culture 1 | | |
| **Choose one L4 Social/Behavioural Sciences course from the following:** | | 4 | 16 |
| PSYC 4101 | Intro to Psychology | | |
| BUSM 4101 | Introduction to Business Management & Marketing | | |
| ENTR 4101 | Introduction to Entrepreneurship | | |
| **Choose one Data/Numeracy course from the following:** | | 4 | 16 |
| MATH 4102 | Mathematics of Argument and Reasoning | | |
| MATH 4101 | Probability and Statistics | | |
| **Choose one Science course from the following:** | | 4 | 16 |
| ENVR 4103 | Introduction to Environmental Science | | |
| ENVR 4101 | Earth Systems Science | | |
| ENVR 4102 | Ecology and Conservation | | |
| **FHEQ Level 4 CREDIT TOTALS** | | **32** | **128** |
| **UPPER-DIVISION REQUIREMENTS** | | | |
| COMP 5101 | AI for Games | 4 | 16 |

| | | | |
|---|---|---|---|
| COMP 5103 | Ethical and Sustainable Computing | 4 | 16 |
| COMP 5102 | Cyber Security | 4 | 16 |
| COMP 5104 | Human Computer Interaction | 4 | 16 |
| **Complete L5 Research Methods required course:** | | 4 | 16 |
| COMP 5301 | Research Methods in Data Science | | |
| **Choose one L5 Service-Learning course from the following:** | | 4 | 16 |
| LIBA 5301 | Service Learning: Global Citizenship and Migration | | |
| LIBA 5302 | Service Learning: Leadership in a Globalised World | | |
| LIBA 5303 | Service Learning: Sustainability and Society | | |
| LIBA 5304 | Service Learning: Digital Collaboration | | |
| XXX 5XXX | Choose 1 x L5 Elective | 4 | 16 |
| XXX 5XXX | Choose 1 x L5 Elective | 4 | 16 |
| **FHEQ Level 5 CREDIT TOTALS** | | **32** | **128** |
| COMP 6102 | Project Management for IT | 4 | 16 |
| COMP 6101 | Advanced Secure Programming | 4 | 16 |
| COMP 6103 | Web Application Development | 4 | 16 |
| COMP 6110 | Senior Project | 8 | 32 |
| **Plus *EITHER:*** | | 8 | 32 |
| COMP 6401 | Internship | | |
| ***Or* TWO of the following Major Options:** | | | |
| SENG 6102 | Generative Artificial Intelligence | | |
| SENG 6103 | Mobile App Development | | |
| MATH 6102 | Machine Learning and Predictive Analytics | | |
| MATH 6101 | Advanced Computational Methods in Data Science | | |
| MATH 6103 | Time Series Analysis and Forecasting | | |
| BUSM 6104 | Leadership and People Management | | |
| **And ONE Elective Course:** | | 4 | 16 |
| XXX 6XXX | Choose 1 x L6 Elective | | |
| **FHEQ Level 6 CREDIT TOTALS** | | **32** | **128** |
| **TOTAL CREDITS FOR THE DEGREE:** | | **120** | **480** |

## 6. PROGRAMME OUTCOMES

Programme-level learning outcomes are identified below. Please refer to the Curriculum Map at the end of this document for details of how outcomes are deployed across the study programme.

Upon completion of the **BSc (Hons) Computer Science with Combined Studies** degree, students should be able to demonstrate skills in the following areas, as specified by the QAA:

- Computing-related cognitive skills
- Computing-related practical skills

- Generic skills for employability

The programme outcomes have been copied or adapted from the QAA benchmark statement for Computing.

## Disciplinary Knowledge and Understanding (A)

LEVEL 4

**AI** Demonstrates broad knowledge and understanding of the core theories and methods in the area of Computer Science.

LEVEL 5

**AI** Demonstrates the ability to engage in critical reflection on quantitative and/or qualitative research methods.

**AII** Demonstrates a critical engagement with theories and concepts used in Computer Science.

LEVEL 6

**AI** Demonstrates a systematic understanding of different paradigms in Computer Science.

**AII** Demonstrates the ability to develop critical responses to, and a systematic understanding of methodological approaches taken in Computer Science.

**AIII** Demonstrates a systematic understanding of practitioners, texts and contemporary debates in the discipline, and the relationship between these and practice.

## Disciplinary Applied Skills (B)

LEVEL 4

**BI** Demonstrates a broad understanding of the key issues of and core debates in the discipline of computing.

LEVEL 5

**BI** Demonstrates critical understanding of the key problems and issues addressed in computer science.

**BII** Demonstrates engagement with the selection, application and utilization of methods appropriate to computer science.

LEVEL 6

**BI** Demonstrates a systematic understanding of practical issues and problems the computer science discipline faces (explicitly addressing Equality, Diversity and Inclusion/Education for Sustainable Development).

**BII** Demonstrates a systematic understanding of a core problem or issue in computing through a senior project or senior seminar.

**BIII** Demonstrates a systematic understanding of major debates and using sophisticated analysis suited to computer science that utilises knowledge from other cognate fields as is appropriate.

## Communication Skills (C)

LEVEL 4

**CI** Demonstrates broad communication skills (including digital literacy) in deploying ideas and information in a range of different formats and media.

LEVEL 5

**CI** Demonstrates the ability to formulate and communicate arguments cogently, retrieve and generate information, and select appropriate criteria to evaluate sources and/or data.

**CII** Delivers work with limited supervision and/or effectively engage in teamwork according to a given brief.

LEVEL 6

**CI** Demonstrates the communication skills needed to plan and manage for changing contexts, audiences and levels of complexity, and advanced group work.

**CII** Demonstrates the systematic ability to gather, organise and deploy highly complex ideas, evidence and information.

**CIII** Demonstrates the ability to formulate, synthesise and effectively articulate arguments potentially incorporating competing perspectives, concepts and evidence in a range of formats and media including in professional and interpersonal contexts.

## Transferrable Skills (D)

LEVEL 4

**DI** Demonstrates broad skills that are relevant to the workplace in terms of both personal and/or group outcomes.

LEVEL 5

**DI** Demonstrating both critical reflection on ethical principles in the research process and broader computing discipline, and self-reflection for the capacity of criteria-based evaluation of work.

**DII** Engaging in action-learning and develop links to external organisations and actors in the process of enabling career planning to take place.

LEVEL 6

**DI** Demonstrates the ability to act with minimal direction or supervision, to engage in self-reflection, use feedback to analyse own capabilities, appraise alternatives, and plan and implement actions.

**DII** Demonstrates autonomy in taking personal responsibility for ethical and sustainable practices in the discipline and in locating their own normative views and cultural commitments within the practice of research.

**DIII** Demonstrate entrepreneurial education in the form of skills and practices that translate directly into employment, ideally in the form of work that contributes to a portfolio.

## 7. TEACHING, LEARNING, AND ASSESSMENT

### Teaching Strategy

The teaching and learning strategy adopted within the **BSc (Hons) Computer Science with Combined Studies** degree is based on the understanding that all students will be treated as active learners. Clearly, the precise approach will vary from course to course, depending on the learning outcomes relevant to each class.

The generic components of our teaching and learning strategy normally involves a variety of approaches and include delivering many of the following:

- Regular use of formal lecture sessions in all courses.
- Occasional workshops and seminars in some courses.
- Regular use of individual and/or team-based projects in all courses.
- Regular use of self-directed and directed reading in all courses.
- Peer-tutoring led by advanced students in many courses.
- Use of audio-visual and library resources in some courses.
- Regular use of tutor- and student-led discussion groups via e-learning platforms.
- Guided Learning Hours (asynchronous online activities) which may include, but not be limited to, flipped classroom activities, recorded lectures, podcasts, vodcasts, quizzes, and online discussions.

The combination of teaching and learning approaches mentioned above develops our students' knowledge, thinking skills and practical skills.

Their knowledge is acquired through:

- Structured lectures and supporting materials
- Directed reading and use of internet materials
- Independent research

Their cognitive skills are developed through:

- Conducting research
- Making presentations and preparing other assessments
- Helping others to learn

Their practical skills are gained through:

- Application of theory to practices encountered during internships
- Using information technology to retrieve and manipulate data
- Negotiating by means of team-based projects

Their Transferable skills are gained through:

- Employing and using appropriate linguistic skills
- Independent learning

### Assessment Strategy

The assessment strategies we use with our **BSc (Hons) Computer Science with Combined Studies** degree speak directly to how we anticipate progression with student learning to take place.

In terms of following up with the assessment of student learning and consistent with US liberal arts traditions, our classes rely on the system of continuous assessment on a course-by-course basis and throughout any given semester. This approach often involves the use of term-papers, portfolios of work, quizzes, mid-semester and final exams as well as student presentations and general class discussion. Not every component applies to every course, but most do relate to many of the classes that are offered. Many of our courses involve a site visit or require attendance at a public lecture as well. Students generally find these events to be extremely valuable to their learning.

Most of the courses will follow the University Assessment Norms, however some may follow specialised norms. See the Assessment Norm Policy for full details: https://www.richmond.ac.uk/university-policies/

## 8. ENTRY REQUIREMENTS

### Admissions

Details of the entry requirements, including English language requirements, may be found at the appropriate page of the University website listed below, where a comprehensive Admissions Policy and Summary of Practice document is also published.

https://www.richmond.ac.uk/undergraduate-admissions/

### Transfer Credit

Prospective students with specific levels of subject achievement in Advanced Placement Tests, GCSE, A Levels and some other UK and international qualifications may enter with Advanced Credit and be given exemption from certain courses of the programme. Please see the Transfer Credit Policy Undergraduate for details.

## 9. EXIT AWARD REQUIREMENTS

An exit award is defined as a lower award than one for which the student is registered. Such an award may be conferred if a student completes part, but not all, of the requirements of the programme for which he or she is registered. Students may not enter the university registered for an exit award.

## Associate of Arts Degree in General Studies (US)

The US Associate of Arts (AA) degree can be awarded as an exit degree for those students completing the following minimum requirements.

30 US / 120 UK credits at RQF Level 3

30 US / 120 UK credits at FHEQ Level 4

Of the total number of credits required for the AA degree, 30 US/120 UK credits must be completed at Richmond. Students must obtain a minimum cumulative GPA of 2.0 and a major of 2.0 in order to qualify for this degree. Latin Honours are not applied to the AA Degree.

The requirements for the AA degree are outlined in Table 1 above. All Level 3 and 4 Major and General Education Liberal Arts Core Requirements must be completed.

## Certificate of Higher Education in Computer Science with Combined Studies (UK)

The UK Certificate of Higher Education (CertHE) can be broadly aligned with the US Associate of Arts Degree. Students who qualify for the AA degree will automatically qualify for the CertHE. But students may qualify for a CertHE without fulfilling the requirements for a US AA degree if they have not completed all of the RQF Level 3 requirements necessary to obtain the AA.

The UK CertHE can be awarded as an exit award for those students completing the following minimum requirements.

120 credits at FHEQ Level 4

- Pass (normally a GPA of between 1.85 and 2.99 for all Level 4 courses)
- Merit (normally a GPA of 3.0 to 3.54)
- Distinction (normally a GPA of 3.55 and above for all level 4 courses)

Of the total number of credits required for the UK CertHE, 15 US/60 UK credits must be completed at Richmond.

The requirements for the UK CertHE are outlined in the section of Table 1 pertaining to FHEQ Level 4 requirements. All Level 4 Major and Liberal Arts Core Requirements must be completed.

## Diploma of Higher Education in Computer Science

The UK Diploma of Higher Education (DipHE) has no US equivalent. The UK DipHE can be awarded as an exit award for those students completing the following minimum requirements.

120 credits at FHEQ Level 4

120 credits at FHEQ Level 5

- Pass (normally a GPA of between 1.85 and 2.99 for all Level 4 courses)
- Merit (normally a GPA of 3.0 to 3.54)

- Distinction (normally a GPA of 3.55 and above for all level 4 courses)

Of the total number of credits required for the UK DipHE, 15 US/60 UK Level 4 credits and 15 US/60 UK Level 5 credits must be completed at the University.

The requirements for the UK DipHE are outlined in the sections of Table 1 and Table 2 above pertaining to FHEQ Level 4 and FHEQ Level 5 requirements. All Level 4 Major and General Education Liberal Arts Core Requirements must be completed. Level 6 courses can be "dipped-down" to fulfil missing Level 5 credits.

Students may not be awarded more than one UK exit award and the University Examination Board will recommend the most relevant one for the individual student circumstance.

## 10. STUDENT SUPPORT AND GUIDANCE

There is a range of student support and guidance, for both academic and general wellbeing, available to students. This is accomplished through a range of programmes and services that positively impact learning as well as the total student life experience.

All students have an allocated full-time faculty member who acts as their Academic Advisor. Academic Advisors have on-going responsibility for students' academic progress, meeting with each student at least once per semester. Programme Directors assist students with registration, enabling smooth progression through the degree. They also advise on career opportunities and provide pastoral support in many cases.

A range of Math, English, Technology and Writing workshops have been established to support students with needs in these areas. Librarians are on hand to assist with library use, which includes instruction in web-based resources.

The University endeavors to make all practical and reasonable adjustments to ensure students can fully participate in the University community. Students who declare a physical disability or a special educational need are supported to ensure the quality of their educational experience meets their individual requirements. SEN students, for instance, receive extra time for examinations, and have the option of writing exams on university-provided computers, and/or of taking exams in a separate room.

The University operates a well-staffed Student Affairs department that provides services intended to support and encourage student welfare, safety and development. This department oversees the medical registration of students and provides counselling services. It also organizes a range of extracurricular activities and travel designed to further enhance students' educational experiences. Disciplinary and social grievance procedures are also overseen by this department.

## 11. PLACEMENT

The Internship Office the University offers a formal mechanism through which students may receive work-placement opportunities. These placements are supervised, career-related work experiences combined with reflective, academic study that help students apply theoretical knowledge in the workplace. Participation in the internship programme is optional, but students who choose to take up a placement receive academic credit for their placement and associated academic work (see level 6 options).

Expectations with regard to careers education, information, advice and guidance (as outlined in the section on Enabling Student Achievement in *The UK Quality Code for Higher Education*) are handled by the university's Student Affairs department. This department conducts a variety of career services for students, ranging from resource provision to a CV service, and in particular through the LEAD (Leadership, Education and Development) seminar series.

In addition to these services, the alumni office offers networking opportunities where students may contact alumni working in a variety of fields. The alumni office also offers these services via social media such as LinkedIn and Facebook.

## 12. STUDY ABROAD

Richmond students have the option to take a leave of absence and travel away from the university as a 'study abroad'. With 40 partnerships spread over five continents, students can select from a wide range of partners. All courses taken elsewhere must be pre-approved by Registry Services.

## 13. REGULATORY FRAMEWORK

The **BSc (Hons) Computer Science with Combined Studies** is operated under the policy and regulatory frameworks of Richmond American University London, the Middle States Commission on Higher Education, the Framework of Higher Education Qualifications, and the UK Quality Code for Higher Education.

Also key to the background for this description are the following documents:

- QAA (2024). UK Quality Code for Higher Education (www.qaa.ac.uk)
- QAA (2018). The Revised UK Quality Code for Higher Education (www.qaa.ac.uk)
- QAA (2008). Higher Education Credit Framework for England: guidance on academic credit arrangements in Higher Education in England (www.qaa.ac.uk)
- SEEC (2016). Credit Level Descriptors for Higher Education. Southern England Consortium for Credit Accumulation and Transfer
- Middle States Commission on Higher Education. Standards for Accreditation and Requirements of Affiliation. 2014: Thirteenth Edition; Rev. Ed. 2015

### Ensuring and Enhancing the Quality of the Programme

The **BSc (Hons) Computer Science with Combined Studies** features detailed published educational objectives that are consistent with the mission of the institution**.** All course outlines contain course specific objectives that are regularly monitored by the individual instructors and by the faculty as a group.

The University has several methods for evaluating and improving the quality and standards of its provision. These include:

- External Examiners
- Internal Moderation
- Student representation
- Curricular change approval process
- Annual Programme Monitoring and Assessment
- Formal Programme Review, every five years
- Course evaluation
- Student satisfaction surveys and the NSS
- Feedback from employers

**BSc (Hons) Computer Science with Combined Studies Studies** is provided through a system of ongoing evaluations that demonstrate achievement of the programme's objectives, and uses the results to improve the effectiveness of the programme. Ongoing evaluation is carried out for both US (the Middle States Commission on Higher Education) and UK (QAA) reviews. The University is a voluntary subscriber member of the QAA, and underwent its first full Institutional Review in May 2013 and a Higher Education Review (AP) in 2017.

## 14. LIBRARY RESOURCES

### Books

Faculty and Students are encouraged to help in the purchase of library resources and submit requests for new purchases relating to and supporting their subject areas and research. Details of selected new acquisitions are publicized on the library subject pages and online catalogue.

The library also purchases academic eBooks to support students required reading, as well as cataloguing open access resources. These books are made available through the library catalogue.

Every year, the library collection is reviewed and non-relevant or out of date stock is withdrawn. Analysis of loans compared to purchases and new publications within core subject areas are used to drive additional purchases to make sure that the collection remains relevant and current.

## Journals

At present the Library subscribes directly to approximately 30 periodical titles. Where electronic access is provided with a subscription this has been made available through the library's online Publications Finder.

In consultation with faculty the Library regularly reviews its periodical subscriptions, ensuring relevant coverage is provided as the curriculum changes.

## Online journal databases

Full text e-journal services include access to Ebsco's: Academic Search Premier, Art Full Text, Business Source Premier, Communication and Mass Media Complete, Education Full Text, International Bibliography of Theatre & Dance, International Security & Counter Terrorism Reference Center, SPORTDiscus and PsycArticles; WARC and JSTOR. These provide access to around 42,000 titles, as well as business and market data and case studies.

In addition, students are directed to a multitude of other online databases which they can search for citations including Google scholar and subject specific internet gateways.

In all cases where the full text is neither in the library's subscription resources nor available online the Library provides free inter-library loans to students and faculty using the services of the British Library (BL On Demand).

Access to the e-journal databases can be found on the Library portal.

## Other online resources

Other online resources include a subscription to FT Education which provides on-line and mobile access to the newspaper archive as well as a wide range of digital and multi-media features, in-depth reports on a wide range of business and political topics and a digital learning tool that allows students and faculty to annotate and share articles. Additionally, the Statista platform provides easy access to over 1,900,000 statistics on a wide range of business & social topics from over 22,500 sources as well as industry reports, research dossiers and market outlooks. A subscription to Mintel Academic provides access to market research data and expertise across the retail, media and financial services sectors in the UK as well as global trends and consumer behaviour analysis.

There are pages of subject related resources on the library's portal which aim to guide students to quality internet material as well as the most relevant subscription resources.

## Scanning/Digitising

Under CLA licence the library provides online access to scanned materials from the library print collection to faculty. These can then be accessed by students on a particular course of study through the member of faculty's Blackboard pages.

## Library Instruction

Students are encouraged to complete a library induction session online and visit the library during Orientation. Professional librarians teach information literacy and research skills to students as an embedded part of the Liberal Arts programme. Instructional materials for Library resources and research skills, customized to cover the resources most relevant for the subject area are also provided for each programme. In addition, further sessions on subject specific resources, tailored to individual assignments as required, are offered on Upper Division courses. Students can also receive individual, tailored help with resources, research skills and referencing on a one-to-one basis either in person or online throughout their studies.

## APPENDIX 1 Curriculum Map

| Course Code | Course Title | Disciplinary Knowledge and understanding (A) | | | Disciplinary Applied Skills (B) | | | Communication Skills (C) | | | Transferrable Skills (D) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | I | II | III | I | II | III | I | II | III | I | II | III |
| **Level 4** | | | | | | | | | | | | | |
| COMP 4101 | Introduction to Programming | * | | | * | | | * | | | * | | |
| COMP 4103 | Systems Architecture | * | | | * | | | * | | | * | | |
| COMP 4102 | Introduction to Computer Networks | * | | | * | | | * | | | * | | |
| **Complete L4 Academic Literacies required course:** | | | | | | | | | | | | | |
| LIBA 4301 | Academic Research and Writing | | | | | | | * | | | * | | |
| **Choose one L4 Arts/Humanities course from the following:** | | | | | | | | | | | | | |
| COMM 4103 | Introduction to Intercultural Communication | * | | | * | | | * | | | * | | |
| ADPR 4101 | Introduction to Advertising, PR and Media | * | | | * | | | * | | | * | | |
| COMM 4102 | Introduction to Content Creation | | | | * | | | * | | | * | | |
| LANG 4101 | Korean Language and Culture 1 | * | | | * | | | * | | | | | |
| **Choose one L4 Social/Behavioural Sciences course from the following:** | | | | | | | | | | | | | |
| PSYC 4101 | Introduction to Psychology | * | | | * | | | * | | | * | | |
| BUSM 4101 | Introduction to Business Management and Marketing | * | | | * | | | | | | * | | |
| ENTR 4101 | Introduction to Entrepreneurship | * | | | * | | | | | | | | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Choose one Data/Numeracy course from the following:** | | | | | | | | | | | |
| MATH 4102 | Mathematics of Argument and Reasoning | * | | * | | * | | * | | | |
| MATH 4101 | Probability and Statistics | * | | * | | * | | * | | | |
| **Choose one Science course from the following:** | | | | | | | | | | | |
| ENVR 4103 | Introduction to Environmental Science | * | | * | | * | | * | | | |
| ENVR 4101 | Earth Systems Science | * | | * | | * | | * | | | |
| ENV4 4102 | Ecology and Conservation | * | | * | | * | | * | | | |
| **Level 5** | | | | | | | | | | | |
| COMP 5101 | AI for Games | * | * | * | * | | * | * | | * | * |
| COMP 5103 | Ethical and Sustainable Computing | * | * | | | | * | * | | * | * |
| COMP 5102 | Cyber Security | * | * | * | * | | * | * | | * | * |
| COMP 5104 | Human Computer Interaction | * | * | * | * | | * | * | | * | * |
| **Complete L5 Research Methods required course:** | | | | | | | | | | | |
| COMP 5301 | Research Methods in Data Science | * | * | | | * | | * | * | | * | | |
| **Choose one L5 Service-Learning course from the following:** | | | | | | | | | | | |
| LIBA 5301 | Service Learning: Global Citizenship and Migration | | | | | | | * | * | | | * | |
| LIBA 5302 | Service Learning: Leadership in a Globalised World | | | | | | | * | * | | | * | |
| LIBA 5303 | Service Learning: Sustainability and Society | | | | | | | * | * | | | * | |

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| LIBA 5304 | Service Learning: Digital Collaboration | | | | | | | * | * | | | * | |
| **Level 6** | | | | | | | | | | | | | |
| COMP 6102 | Project Management for IT | * | * | | * | | * | * | | | | | * |
| COMP 6101 | Advanced Secure Programming | * | * | | * | | * | | * | | | | * |
| COMP 6103 | Web Application Development | * | * | | * | | * | | * | | | * | * |
| COMP 6110 | Senior Project | | * | * | * | * | | | * | | * | * | |
| **Plus *EITHER:*** | | | | | | | | | | | | | |
| COMP 6401 | Internship | | | | | | | * | | * | * | * | * |
| ***Or* TWO of the following Major Options:** | | | | | | | | | | | | | |
| SENG 6102 | Generative Artificial Intelligence | * | * | | * | | * | | * | * | | | * |
| SENG 6103 | Mobile App Development | * | * | | * | | * | | * | | | | * |
| MATH 6102 | Machine Learning and Predictive Analytics | * | * | * | | | * | | * | | | | * |
| MATH 6101 | Advanced Computational Methods in Data Science | * | * | | | | * | | * | | | | * |
| MATH 6103 | Time Series Analysis and Forecasting | * | * | | | | * | | * | | | | * |
| BUSM 6104 | Leadership and People Management | * | | | * | * | | | | | | | |

Faculty may access the KILO map: KILO KPO Tables

## Publication Dates

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|---|---|
| **Revision 1** | Dec 2024 – First Edition |
| **Revision 2** | Jul 2025 |
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