

PROGRAMME SPECIFICATION

Course record information

Name and level of final award	BSc (Honours) Computer Science
	BSc (Honours) Computer Science with Industrial Experience
	The BSc (Honours) Computer Science is a BSc (Hons) degree that is Bologna FQ-EHEA first cycle degree or diploma compatible.
Name and level of intermediate awards	Diploma of Higher Education in Computer Science Diploma of Higher Education in Computer Science with Industrial Experience
	Certificate of Higher Education in Computer Science
Awarding body/institution	University of Westminster
Teaching Institution	University of Westminster
Status of awarding body/institution	Recognised Body
Location of delivery	Central London (Cavendish)
Language of delivery and assessment	English
Mode, length of study and normal starting month	Full time, three years, September start OR Full time, four years with Industrial Experience, September start
QAA subject benchmarking	QAA subject benchmark for Computing
group(s)	British Computer Society guidelines on accreditation
Professional statutory or regulatory body	British Computer Society (BCS) Re-accreditation is pending
Date of course validation/Revalidation	2019
Date of programme specification approval	September 2019
Valid for cohorts	2020/21
Course Leader	Ashif Tejani
UCAS code and URL	westminster.ac.uk/courses/undergraduate
Westminster course code	BSCSS02F
HECoS code	100366
UKPASS code (PG only)	

Admissions requirements

There are standard minimum <u>entry requirements</u> for all undergraduate courses. Students are advised to check the standard requirements for the most up-to-date information.

For most courses a decision will be made on the basis of your application form alone. However, for some courses the selection process may include an interview to demonstrate your strengths in addition to any formal entry requirements.

More information can be found here: westminster.ac.uk/courses/undergraduate/how-to-apply.

Recognition of Prior Learning

Applicants with prior certificated or experiential learning at the same level of the qualification for which they wish to apply are advised to visit the following page for further information: westminster.ac.uk/recognition-of-prior-certified-learning.

Aims of the course

- 1. Provide students with knowledge and understanding of the fundamental principles, methods and technologies that underpin the discipline of computing;
- 2. Give students technical expertise in computer science and practical experience enabling them to be effective in a varied and fast-developing range of careers in computing;
- 3. Provide students with sound knowledge of software engineering principles across the whole software development lifecycle;
- 4. Provide students with the knowledge and practical use of industry tools and techniques to develop software applications and solutions;
- 5. Provide the ability to apply this knowledge and skills to a range of practical situations to resolve business and technical problems and to encourage a disciplined and professional attitude towards the development of such systems;
- 6. Provide a motivating and inclusive environment with the opportunity to develop themselves intellectually and socially and to encourage students to develop as independent and self-critical problem solvers;
- 7. Prepare students for continued study at an advanced level, either in formal postgraduate study or as continued professional development.

What will you be expected to achieve?

Learning outcomes are statements on what successful students have achieved as the result of learning. These are threshold statements of achievement the learning outcomes broadly fall into four categories:

- The overall knowledge and understanding you will gain from your course (KU).
- Graduate attributes are characteristics that you will have developed during the duration of your course (GA).
- **Professional and personal practice learning outcomes** are specific skills that you will be expected to have gained on successful completion of the course (PPP)
- Key transferable skills that you will be expected to have gained on successful completion of the course. (KTS)

Level 4 course learning outcomes: upon completion of level 4 you will be able to demonstrate:

Upon completion of level 4 you will be able to:

- L4.1 Use appropriately the client-server architecture with respect to client design and security implications. (KU)
- L4.2 Apply core mathematical elements to solve algorithmic problems. (KU)
- L4.3 Describe the structure of a computing system, the design of its basic components and explain the interactions of hardware and software components. (KU)
- L4.4 Analyse small scale problems and design their solutions by applying algorithmic and mathematical techniques. (PPP)
- L4.5 Methodically capture user requirements and create a specification that meets them. (PPP)
- L4.6 Describe, create and manipulate simple data collections through their underlying representation. (PPP)
- L4.7 Apply programming principles and constructs to implement solutions to small scale problems. (PPP)
- L4.8 Recognise and explain behaviour constraints of a professional code of conduct towards third parties in a Computer Science working environment. (KTS)
- L4.9 Following guidance, review literature in Computer Science and present in written and oral form own work and learning, critically comparing, contrasting and evaluating the findings. (KTS)

Level 5 course learning outcomes: upon completion of level 5 you will be able to demonstrate:

- L5.1 Employ a standard design language for the design, representation and formal specification of software. (KU)
- L5.2 Identify and explain security risks and their implications for computer systems. (KU)
- L5.3 Explain the basic principles of modern operating systems and how they serve operational needs. (KU)
- L5.4 Demonstrate how information is modelled, persistently stored, manipulated and retrieved, as data, to serve scalable solutions to medium-scale object-oriented problems. (PPP)
- L5.5 Demonstrate competency in object-oriented design and algorithmic and mathematical approaches to solve medium scale problems. (PPP)
- L5.6 Identify, evaluate, and improve on interface issues between human users and computer systems using multiple platforms. (PPP)
- L5.7 Utilise, compare and contrast software frameworks and architectures and implement solutions using object-oriented programming. (PPP)
- L5.8 Successfully plan and execute a medium-scale software project with appropriate software engineering principles. (KTS)

L5.9 Demonstrate professional responsibility in the development of quality computer science solutions in a global context and the presentation and defence of these in multiple communication forms, supported by methodical research. (KTS)

Level 6 course learning outcomes: upon completion of level 6 you will be able to demonstrate:

- L6.1 Identify and appraise the main threats to computer systems and networks security and integrity. (KU)
- L6.2 Appropriately analyse and design large scale data systems to serve the retrieval and/or decision-making needs of computer systems and their clients. (PPP)
- L6.3 Implement a comprehensive technical solution to an advanced problem using appropriate programming languages. (PPP)
- L6.4 Methodically and independently develop requirements to a solution for a large-scale software problem using appropriate languages and tools. (PPP)
- L6.5 Demonstrate complete handling of the full life-cycle of a computer science project underpinned by an entrepreneurial approach and a focus on the needs of real clients and the wider society. (KTS)
- L6.6 Apply appropriate research methodologies in carrying out independent research in computer science and produce a report demonstrating evidence of critical thinking. (KTS)

How will you learn?

Your course is a collection of learning opportunities. Using these opportunities will help you mature in attitude and competence, preparing you for your future career and life in general. Learning in your course is a partnership: expert University staff will guide you through the necessary core knowledge of your subject and help you develop an understanding, while you, increasingly, take the leading role in pursuing the learning that meets your specific needs.

Your course is organised into a number of **modules** at each level. These are the building blocks of your course. Each module consists of a number of learning activities over a number of weeks designed to help you achieve the knowledge and skills related to a particular area within your subject.

The principal aim of your course is to equip you for professional life, or higher study, relevant to your current programme of study.

To prepare you for this, the learning in your course will not take place only in the class. Your learning will use five methods, each supporting the others:

- Lectures will give you access to expertise and present you with the knowledge you need in your subject.
- **Practical tutorial or laboratory sessions** will allow you to understand, apply and strengthen your skills under the guidance of a tutor.
- **Independent study time** will let you take more control of your own learning and give you the framework that will help you to keep on learning without supervision.

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- **Personal development** will allow you to complement your knowledge with the specific specialised skills that meet your individual needs.
- Real-life project briefs or case studies, normally provided by an organisation, will
 give you the opportunity to engage with employers and use your knowledge and skills
 to solve a real-life or a business-related problem.

In your first year of study (called **Level 4**) you will make the full transition into Higher Education. You will develop the key core skills for Computer Science complemented with the foundations of your specific course or cognate area. To help this transition your course has additional classes and support sessions at this level that you will need to fully engage with so you can prepare for the advanced study that follows.

Your second year of study (**Level 5**) will help you develop some autonomy. At this level, you will develop detailed knowledge in Computer Science and will be able to deal with more areas by yourself and in teams, reflecting on your own strengths and identifying areas to specialise in.

Following that level, you may choose to have a year in industry (a **placement year**) to strengthen your understanding of industry needs through direct application of your evolving skills.

In your final year of study (**Level 6**) you will have learned to work autonomously with your lecturers increasingly being there to support you and challenge your thinking; this is the level that completes your preparation for going into industry and further study, with an ability to handle the complexity of large-scale systems and environments and with full control of your further development needs.

Throughout all levels of your course you will also develop necessary, distinct, attributes that will help you compete effectively in a global changing environment.

The Graduate Attributes (GA) are developed throughout the course through the knowledge and professional skills modules, and are intended to ensure that you have a deep knowledge of the subject area, you are critical and creative thinkers, are professional, socially, ethically and environmentally aware, global in outlook and community engaged, and a literate and effective communicator.

The tables below map these key attributes to the core course modules.

	Graduate Attributes	Level 4 course LOs	Trends in computer science	Computer Systems Fundamentals	Software Development	Web Design and Development	Mathematics for Computing	Software Development II
		Use appropriately the client-server L4.1 architecture with respect to client design and security implications.		~				
Critical and crea	Critical and creative	L4.2 Apply core mathematical elements to solve algorithmic problems.		√	√		√	~
	thinkers	L4.3 Describe the structure of a computing system, the design of its basic components and explain the interactions of hardware and software components.		V				
		Analyse small scale problems and design their L4.4 solutions by applying algorithmic and mathematical techniques.			√	√	√	
	Critical and creative	L4.5 Methodically capture user requirements and create a specification that meets them.	√			✓		
PPP	thinkers	L4.6 Describe, create and manipulate simple data collections through their underlying representation.			√	✓	√	·
		Apply programming principles and constructs L4.7 to implement solutions to small scale problems.			√	√		√
	Social, ethically and environmentally aware	Recognise and explain behaviour constraints of a professional code of conduct towards third parties in a Computer Science working environment	√			√		
KTS	Literate and effective communicator	Following guidance, review literature in Computer Science and present in written and L4.9 oral form own work and learning, critically comparing, contrasting and evaluating the findings.	V					

	Graduate Attributes	Level 5 course LOs Oriented Programming P	oftware Database Systems Pevelopment Group Systems Project (work-based module)
		Employ a standard design language for the L5.1 design, representation and formal specification of software.	· ·
KU	Critical and creative	L5.2 Identify and explain security risks and their implications for computer systems	· ·
	thinkers	L5.3 Explain the basic principles of modern operating systems and how they serve operational needs.	
		L5.4 Demonstrate how information is modelled, persistently stored, manipulated and retrieved, as data, to serve scalable solutions to medium-scale object-oriented problems.	~
PPP	Critical and creative	Demonstrate competency in object-oriented L5.5 design and algorithmic and mathematical approaches to solve medium scale problems. ✓	
	thinkers	L5.6 issues between human users and computer systems using multiple platforms.	·
		Utilise, compare and contrast software L5.7 frameworks and architectures and implement solutions using object-oriented programming.	·
	Social, ethically and environmentally aware	Successfully plan and execute a medium-scale L5.8 software project with appropriate software engineering principles.	·
KTS	Literate and effective communicator	Following guidance, review literature in Computer Science and present in written and oral form own work and learning, critically comparing, contrasting and evaluating the findings.	✓
	Social, ethically and environmentally	L5.9 Demonstrate professional responsibility in the development of quality computer science	✓

	aware, and Global in		solutions in a global context and the prese	ntation			
	outlook and engaged		and defence of these in multiple communi	cation			
	in communities		forms, supported by methodical research.	Final \		Cybersecurity	Applied Artificial
_	Graduate Attributes	Level 6	5 course LOs	Projec	ct		Intelligence
KU	Critical and creative	L6.1	Identify and appraise the main threats to computer		✓	✓	
	thinkers	20.1	systems and networks security and integrity.				
			Appropriately analyse and design large scale data systems			✓	✓
		L6.2	to serve the retrieval and/or decision-making needs of				
			computer systems and their clients.				
	Critical and creative		Implement a comprehensive technical solution to an		✓		✓
PPP	thinkers	L6.3	advanced problem using appropriate programming				
	tillikers		languages.				
			Methodically and independently develop requirements to		✓		
		L6.4	a solution for a large-scale software problem using				
			appropriate languages and tools.				
			Demonstrate complete handling of the full life-cycle of a		✓		
	Fatanasanisl	16.5	computer science project underpinned by an				
	Entrepreneurial	L6.5	entrepreneurial approach and a focus on the needs of real				
			clients and the wider society.				
			Following guidance, review literature in Computer Science		✓		✓
VTC	Literate and effective	16.6	and present in written and oral form own work and				
KTS	communicator	L6,6	learning, critically comparing, contrasting and evaluating				
			the findings.				
	Social, ethically and		Apply appropriate research methodologies in carrying out		✓		
	environmentally aware,	16.7	independent research in computer science and produce a				
	and Global in outlook and	L6.7	report demonstrating evidence of critical thinking.				
	engaged in communities						

The learning and the teaching of the course

How will you be assessed?

As your learning continues it is important to stop every now and then and take stock of how much you learn so that you know where you are and how much more you still need to cover. In your course, assessment and feedback are the key elements in measuring learning. Assessment in your course has two functions: formative assessment is assessment that lets you see where you are in your learning and what you have learned so far, while summative assessment measures how much you have learned in a way that contributes to your overall grades.

You will undertake a **wide variety of assessment tasks** as you progress through your degree course. Their nature will vary according to your level and the nature of the task. Some, such as group work, will help you to develop practical skills alongside the more specific skills that are being assessed. You will write essays and research reports, and learn to write in a style suitable to a piece of academic work, and to make proper use of references and bibliographies.

Other forms of assessment will include practical exercises ranging from small tasks that might be completed in a tutorial, to something more complex like designing and writing a larger computer program. There will be some formal examinations (usually at the end of each academic year). Some of the work will be completed individually, and sometimes you will work with other students as part of a team, emulating as close as possible the environment you will face in your later life in industry.

Many assessments will be based on real-life scenarios typically found in the software industry. This might include client requirement elicitation, extracting hard software requirements from given business requirements, then designing and implementing a solution.

All assessments that contribute to your final grades will be assessed against set criteria, following rigorous quality mechanisms that ensure our academic judgement remains fair and consistent with the wider educational sector. Typically, assessment tasks will become longer, and more self-managed, as you get into the second year and the final year of your course and they will have less detail in guidance and more room for you to innovate through your own decisions informed by your own research in your specialist areas. **Assessment is designed to be a learning experience in itself** and will help you make that transition from small practical exercises to more complex piece of work towards the substantial, year-long, project of your final year.

To help you see how different areas connect with each other you will have in some cases tasks that assess the outcomes from different modules in one complex piece of work. These are called **synoptic assessments**. Examples of synoptic assessment for your course include the Group Project at level 5 and the individual project at level 6.

Throughout your learning, you will get feedback. **Feedback** will help you reflect on what you have learned so you can identify the areas in which you are strong and the areas in which you need to learn more. Feedback will be given to you in response to assessment, in response to questions in lectures, seminars and tutorials, and in guidance you get during supervision. But feedback will also come from your interactions with other students and with industry. All feedback will be useful to help you guide your learning so that you develop the rights skills faster.

Employment and further study opportunities

The course offers a short-term work-based learning experience by providing you with an opportunity to work on a real-life problem which is normally set by an external organisation as a small-scale project.

This project forms a part of the assessment in a designated module called 5COSC003W Software Development Group Project. This module provides the structure for your learning and receiving support from the module team. You will work on the project on your own and/or as part of a small team within and outside the class. During this time, you may also get a chance to interact with the organisation that has set the project. The quality of the work that you produce for the project get assessed as part of the module's assessment.

This experience will allow you to put theory into practice by applying your knowledge and skills gained from various modules to address a real-life situation, usually within the context of a business-related problem. Furthermore, this experience will help you develop subject-specific technical skills as well as certain employability skills such as leadership, organisation and commercial awareness.

In addition. this course gives you with the opportunity to take a year in industry (work placement) after completing the second year of your study and gain work experience, increasing your chances of employability after graduation. You will be offered help and support to find and secure placement opportunities through various workshops and events organised by the Career Development Centre and the course team. Typically, you will be assigned into roles involving tasks related to computer science.

As a graduate of University of Westminster, you shall be expected to demonstrate the following five Graduate Attributes:

- Critical and creative thinkers
- Literate and effective communicator
- Entrepreneurial
- Global in outlook and engaged in communities
- Social, ethically and environmentally aware

University of Westminster courses capitalise on the benefits that London as a global city and as a major creative, intellectual and technology hub has to offer for the learning environment and experience of our students.

The BSc Computer Science course aims to create high quality graduates who have a strong focus on solving real-world problems, will have adaptability and maturity, and have a strong foundation of knowledge and the technical capability to be able to immediately contribute to their workplace environment. Graduates of the BSc Computer Science course will have been taught and utilised industrial tools and techniques and will be versed in all aspects of the software lifecycle. As well as having a solid background in computer science, graduates from the course shall also have one or more specialisms that open up career pathways during their early years as a computing professional. Graduates shall be independent thinkers, lifelong learners and be able to analyse, critically reflect, and be able to confidently and effectively communicate. Graduating from this accredited course where professional skills and practice are embedded, graduates shall be able to meet the required professional and ethical standards expected in the modern workplace. Graduates shall also be capable and prepared for the broadening their knowledge by undertaking Masters level study or higher.

In brief, our graduates will be distinctive in being:

- 1. Critical and creative thinkers: investigating a problem case study to identify research questions and formulate hypotheses, using appropriately techniques to support problem solving, designing and implementation.
- 2. Literate and effective communicator: communicating analysis ideas and results in written and verbal forms and presentation tools.
- 3. Entrepreneurial: Having fundamental knowledge of the organization operations and issues, tackling problems resiliently and confidently both independently and in groups, reflecting and learning from own performance.
- 4. Global in outlook and engaged in communities: Understand current industrial tools and techniques used within all aspects of software lifecycle, engaging in networking events, participating in competitions.
- 5. Socially, ethically and environmentally aware: adhering to ethical code, making responsible use of data driven technologies, avoiding biased data collection and presentation.
- 6. Prepare students for continued study at an advanced level, either in formal postgraduate study or as continued professional development.

Graduates would typically be part of a team designing, implementing and or maintaining sophisticated distributed applications. The actual role within the team may be, for example, designer, programmer, systems administrator or systems analyst. Other types of roles possible are in computer science research in a commercial company or academic institution.

Course structure

The list below shows the core and option modules that are available as part of the course and their credit value. A *core* module is one that must be attempted to gain the award of BSc Computer Science. In addition to the core modules, a student can take up to 2 free choice modules, either 2 options or 1 option + 1 elective, at both level 5 and 6. Therefore a student can choose either 2 subject specific options or 1 subject specific option plus one elective option. The subject specific option modules are grouped to form a set of cognate areas as shown below; however, these do not result in any specific named awards. Students are not required to take option modules from just one specific cognate area and are free to choose modules from all cognate areas (timetable dependent).

The School organises module information sessions where advice is given to students regarding their module choices and cognate areas. Student can also seek advice from their personal tutor and other academics concerning their choice.

Some, but not all, of these modules will have to be taken to gain the award of BSc Computer Science. The course specific regulations give full details of what must be taken and passed in order to gain an award.

This section shows the core and option modules available as part of the course and their credit value. Full-time Undergraduate students study 120 credits per year. Course structures can be subject to change each academic year following feedback from a variety of sources.

Core Modules

Credit Level 4 -	Core				
Module code	Module title	Status	UK credit	ECTS	
4COSC003W	Trends in Computer Science	Core	20	10	
4COSC004W	Computer Systems Fundamentals	Core	20	10	
4COSC001W	Software Development I	Core	20	10	
4COSC011W	Web Design and Development	Core	20	10	
4COSC002W	Mathematics for Computing	Core	20	10	
4COSC005W	Software Development II	Core	20	10	
Award of Certificate of Higher Education available					
Credit Level 5 - Core					
Module code	Module title	Status	UK credit	ECTS	
5COSC019W	Object Oriented Programming	Core	20	10	
5COSC022W	Client-Server Architectures	Core	20	10	
5COSC021W	Software Development Group Project (work based module)	Core	20	10	
5COSC020W	Database Systems	Core	20	10	
Award of Diplor	na of Higher Education available				
*6COSC018W	*Computer Science Placement	Core			
Credit Level 6 -	Core	1			
Module code	Module title	Status	UK credit	ECTS	
6COSC006W	Final Year Project	Core	40	20	
6COSC002W	Security and Forensics	Core	20	10	
New	Applied Artificial Intelligence	Core	20	10	

Options

Credit Level 5 -	Options - Mobile and Web Computing Theme			
Module code	Module title	Status	UK credit	ECTS
5COSC023W	Mobile Application Development	Option	20	10
5COSC024W	Server-side Web Development	Option	20	10
5COSC026W	Advanced Client-side Development	Option	20	10
Credit Level 6 -	Options - Mobile and Web Computing Theme			
6COSC004W	Mobile Native Application Development	Option	20	10
6COSC005W	Advanced Server-side web Programming	Option	20	10

Credit Level 5 -	Credit Level 5 – Options –Usability and Interaction Theme					
Module code	Module title	Status	UK credit	ECTS		
5COSC025W	Human Computer Interaction and User Experience	Option	20	10		
5CCGD013W	XR & Multimodal Interaction	Option	20	10		
5MMCS007W	3D Interactive Media Development	Option	20	10		
Credit Level 6 -	- Options –Usability and Interaction Theme					
New	Usability Testing	Option	20	10		
6MMCS002W	Digital marketing, Social Media and Web Analytics	Option	20	10		
6MMCS004W	Advanced Interactive Media Development	Option	20	10		

Credit Level 5	Credit Level 5 – Options –BIS Theme					
Module code	Module title	Status	UK credit	ECTS		
5BUIS020W	Information Technology Security	Option	20	10		
5BUIS019W	Business Analytics	Option	20	10		
Credit Level 6	- Options -BIS Theme					
6BUIS002W	Information Driven Entrepreneurship and Enterprise	Option	20	10		
6BUIS001W	Customer Relationship & Change Management (CRM & CM) with Business Intelligence	Option	20	10		
6BUIS003W	Strategic management of IS (IT)	Option	20	10		

Credit Level 5	- Options -Data Science Theme			
Module code	Module title	Status	UK credit	ECTS
5DATA002W	Machine Learning and Data mining	Option	20	10
5BUIS019W	Business Analytics	Option	20	10
5NTCM006W	Applied Cryptography	Option	20	10
Credit Level 6	- Options - Data Science Theme			
6DATA002W	Advanced analytics	Option	20	10
6DATA001W	Visualisation and dash boarding	Option	20	10
6BUIS001W	Business Intelligence	Option	20	10
6COSC003W	Applied Intelligence - Smart Algorithms for Modern and Ethical Al	Option	20	10

Credit Level 5	Credit Level 5 – Options – Games and Computer Graphics Development Theme					
Module code	Module title	Status	UK credit	ECTS		
5CCGD010W	Maths and Physics for Games	Option	20	10		
5CCGD011W	Game Engine Architecture	Option	20	10		
5CCGD013W	XR Multimodal Interaction	Option	20	10		
Credit Level 6	- Options - Games and Computer Graphics Development Theme					
New	Computer Graphics Programming	Option	20	10		
6CCGD002W	Game Al	Option	20	10		
6CCGD003W	Games Networking and Security	Option	20	10		
New	Interactive 3D Visualisation	Option	20	10		

Credit Level 5 – Op	otions -Computer Engineering Theme			
Module code	Module title	Status	UK credit	ECTS
5ELEN018W	Robotic Principles	Option	20	10
5ELEN019W	Sensors & Interfaces	Option	20	10
Credit Level 6 – Op	otions – Computer Engineering Theme			
New	Internet-of-Things	Option	20	10
New	Applied Robotics	Option	20	10
Award BSc availal	ple	ı		

Award BSc Honours available

*When 6COSC013W is taken award of BSc /BSc Honours with Industrial Experience available

One Westminster Elective module may also be chosen as an alternative to an option at level 5 and level 6.

Not all option modules will necessarily be offered in any one academic year. In addition, timetabling and limited spaces may mean you cannot do your first choice of modules.

Professional Body Accreditation or other external references

The course is intended to fulfil the educational requirements of the British Computer Society (BCS) to fulfil the educational requirements registration as a Chartered IT Professional (CITP) and partial Chartered Engineer (CEng). Re-accreditation from Professional Body is pending.

Reference points for the course Internally

University Teaching and Learning policy statements,

University Quality Assurance Handbook and Modular Frameworks, staff research.

Externally

QAA Subject Benchmark statements,

Professional, Statutory, Regulatory Body requirements/guidance, University and SEEC (credit consortium) level descriptors.

Professional body accreditation

British Computer Society (BCS) Criteria.

Academic regulations

The current Handbook of Academic Regulations is available at: westminster.ac.uk/academicregulations

However, this course may have specific regulations to comply with professional body accreditation which should be read in conjunction with <u>Section 17 Framework for Undergraduate Courses</u> of the Handbook of Academic Regulations. Any course specific regulations will be outlined in the course handbook provided to students on enrolment.

How will you be supported in your studies?

Course Management

The BSc (Honours) Computer Science course is under the School of Computer Science & Engineering and the management structure supporting the course is as follows:

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- Ashif Tejani, Course Leader is responsible for day to day running and overall management of the course and development of the curriculum
- Dr Philip Trwoga, Head of School, holds academic responsibility for the course and other courses within the School
- Professor Jonathan Stockdale, Pro Vice-Chancellor and Head of the College of Design, Creative and Digital Industries, holds overall responsibility for the course, and for the other courses run by the College.

Academic Support

Upon arrival, an induction programme will introduce you to the staff responsible for the course, the campus on which you will be studying, the Library and IT facilities, additional support available and to your Campus Registry. You will be provided with the Course Handbook, which provides detailed information about the course.

Each course has a course leader or Director of Studies. All students enrolled on a full-time course and part time students registered for more than 60 credits a year have a personal tutor, who provides advice and guidance on academic matters. The University uses a Virtual Learning Environment called Blackboard where students access their course materials, and can communicate and collaborate with staff and other students. Further information on Blackboard can be found at westminster.ac.uk/blackboard.

You will be allocated a personal tutor at the beginning of your studies who will support you throughout your student journey easing the transition into Higher Education through to higher levels of study.

Academic and Personal tutoring involves fostering academic partnerships, with mutual expectations, between tutors and students. Tutors will provide proactive, personalised academic and pastoral support to help your academic, personal and professional development. We see students as co-creators in this academic partnership taking responsibility for their own development by fully engaging with tutoring arrangements to optimize their learning experience.

As such, you will have scheduled mandatory, individual meetings with your tutor who will provide you with regular feedback on your academic progress. Tutors can also advise you on the educational coherence of your module choice, assessment procedures, regulations and University structures, and educational support needs advising on appropriate provision available.

You will also have continuous pastoral support throughout your time at University and can see your tutor either by appointment or in designated office hours. Your tutor can provide a link to specialist support available through University Services and refer you for more specialised pastoral guidance as appropriate to the School Senior Tutor, Disability Services, Counselling Services, Registry and/or other Services for Students. It is important that you seek and ask for advice earlier rather than later.

More information is available from the Student Hub on Personal Tutoring which can be found at: https://www.westminster.ac.uk/current-students/support-and-services/personal-tutors

Learning Support

The Academic Learning Development Centre supports students in developing the skills required for higher education. As well as online resources in Blackboard, students have the opportunity to attend Study Skills workshops and one to one appointments. Further information on the Academic Learning Development Centre can be found at west-ming-development.

Learning support includes four libraries, each holding a collection of resources related to the subjects taught at that site. Students¹ can search the entire library collection online through the Library Search service to find and reserve printed books, and access electronic resources (databases, e-journals, e-books). Students can choose to study in the libraries, which have areas for silent and group study, desktop computers, laptops for loan, photocopying and printing services. They can also choose from several computer rooms at each campus where desktop computers are available with the general and specialist software that supports the courses taught in their College. Students can also securely connect their own laptops and mobile devices to the University wireless network.

Support Services

The University of Westminster Student and Academic Services department provide advice and guidance on accommodation, financial and legal matters, personal counselling, health and disability issues, careers, specialist advice for international students and the chaplaincy providing multi-faith guidance. Further information on the advice available to students can be found at westminster.ac.uk/student-advice. The University of Westminster Students' Union also provides a range of facilities to support students during their time at the University. Further information on UWSU can be found at westminster.ac.uk/students-union.

Careers Support

From the very start of your studies, the Careers and Employability Services department is committed to supporting your career progression by offering a wide range of developmental opportunities, combined with up to date, tailored careers information, advice and guidance. Our experienced careers staff are able to work with you to reflect on your career goals and plan how to get the most from your time at the University of Westminster, to access a range of work based learning opportunities including work experience, part-time jobs, volunteering and mentoring, before supporting your transition into employment with personalised job hunting, CV, application and interview advice.

The University uses an online management system called Engage, which offers access to a variety of events and activities led by employers and careers and employability staff, extensive part-time, work experience and graduate vacancy lists, comprehensive careers information and advice and one to one careers appointments. These services are also available to you for up to 3 years after you graduate.

How do we ensure the quality of our courses and continuous improvement?

The course was initially approved by a University Validation Panel in 2016. The panel included internal peers from the University, academic(s) from another university and a representative from industry. This helps to ensure the comparability of the course to those offered in other universities and the relevance to employers.

The course is also monitored each year by the College to ensure it is running effectively and that issues which might affect the student experience have been appropriately addressed. Staff will consider evidence about the course, including the evidence of student surveys, student progression and achievement and reports from external examiners, in order to evaluate the effectiveness of the course.

A Course revalidation takes place periodically to ensure that the curriculum is up-to-date and that the skills gained on the course continue to be relevant to employers. Students meet with revalidation panels to provide feedback on their experiences. Student feedback from previous years is also part of the evidence used to assess how the course has been running.

How do we act on student feedback?

Student feedback is important to the University and student views are taken seriously. Student feedback is gathered in a variety of ways.

- Through student engagement activities at Course/Module level, students have the
 opportunity to express their voice in the running of their course. Student
 representatives are elected to expressly represent the views of their peers. The
 University and the Students' Union work together to provide a full induction to the role
 of the student representatives.
- There are also School Staff Student Exchange meetings that enable wider discussions across the School. Student representatives are also represented on key College and University committees.
- All students are invited to complete a questionnaire before the end of each module.
 The feedback from this will inform the module leader on the effectiveness of the module and highlight areas that could be enhanced.
- Final year Undergraduate students will be asked to complete the National Student Survey which helps to inform the national university league tables.

Please note: This programme specification provides a concise summary of the main features of the course and the learning outcomes that a student might reasonably be expected to achieve and demonstrate if s/he takes full advantage of the learning opportunities that are provided. This specification should be read in conjunction with the Course Handbook provided to students and Module Handbooks, which provide more detailed information on the specific learning outcomes, content, teaching, learning and assessment methods for each module.

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