UNIVERSITY OF WOLVERHAMPTON

Course Specification

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Core Information

Awarding Body / Institution:	University of Wolverhampton		
School / Institute:	School of Architecture, Computing and Engineering		
Course Code(s):	CS071P01UM CS071P31UM	Full-time Part-time	15 Months 28 Months
Course Title:	MSc Computer Science		
Hierarchy of Awards:	Master of Science Computer Science		
Language of Study:	English		
Date of first cohort:	14/Sep/2026		
Specification valid from:	2025/6		

Academic Staff

Course Leader:	
Head of Department:	

Course Information

Location of Delivery:	University of Wolverhampton
Category of Partnership:	Standard Provision (Not delivered in partnership)
Teaching Institution:	University of Wolverhampton
Open / Closed Course:	This course is open to all suitably qualified candidates.

Entry Requirements:

Entry requirements are subject to regular review. The entry requirements applicable to a particular academic year will be published on the University website (and externally as appropriate e.g. UCAS

Applicants must have at least:

1. a second class honours in computer science or a closely related subject;
1. or a Post Graduate Certificate in computer science, with a minimum grade of 50% in all modules.

International Applicants

Your qualifications need to be deemed equivalent to the above entry requirements.

1. English Language requirements are normally IELTS 6.0 with a minimum of 5.5 in each area (unless otherwise stated) or equivalent accepted qualification https://www.wlv.ac.uk/international/international-academy/courses-at-the-international-academy/language-entry-requirements/
1. Please use the following link https://www.wlv.ac.uk/international/ to see the range of English Language Pre-Sessional courses and related Pre-MSc courses offered by the University of Wolverhampton International Academy.
1. For further information relating to overseas qualification, please use the following link https://www.wlv.ac.uk/international/our-locations/your-country/

Distinctive Features of the Course:

This course offers a distinctive, industry-focused approach to computer science, combining advanced technical knowledge with practical, real-world experience. The following highlights showcase what sets this programme apart and why it provides a strong foundation for your future career. Specialised Knowledge: Gain deep understanding across several applied areas of Computer Science, meeting strong industry demand. Cutting-Edge Curriculum: Focus on up to date, in-demand skills from artificial intelligence (AI) to web, cloud, mobile and XR application development. Practical Experience: Strong emphasis on hands-on learning, backed by underlying theory from active researchers. Research-Driven: Learn from academics who are active researchers and publishing in their fields. Flexible Study Options: Choose between full-time (15 months) or part-time (28 months) study to suit your needs.

Intakes:

September
November
January
March

Major Source of Funding:

Office for Students (OFS)

Tuition Fees:

Tuition fees are reviewed on an annual basis. The fees applicable to a particular academic year will be published on the University website.

Year	Status	Mode	Amount
2026/7	H	Full Time	£11015.00
2026/7	Overseas	Full Time	£18645.00
2026/7	H	31	£5508.00

PSRB:

None

Course Structure:

January (Full-time)

Module	Title	Credits	Period	Type
7CC016	Cloud Infrastructure and Platforms	15	INYR	Core
7CS132	Applied Database Systems	15	INYR	Core
7CS122	Research Methods & Professionalism	15	INYR	Core
7CS120	XR Application Development	15	INYR	Core

January (Full-time)

Module	Title	Credits	Period	Type
7CS133	Advanced Artificial Intelligence and Machine Learning	15	INYR	Core
7CS134	Data Mining and Analytics	15	INYR	Core
7CS123	Advanced Software Engineering	15	INYR	Core
7CS138	Web Development	15	INYR	Core

January (Full-time)

Module	Title	Credits	Period	Type
7CS139	Computer Science Dissertation	60	INYR	Core

March (Full-time)

Module	Title	Credits	Period	Type
7CS122	Research Methods & Professionalism	15	INYR	Core
7CS120	XR Application Development	15	INYR	Core

March (Full-time)

Module	Title	Credits	Period	Type
7CS133	Advanced Artificial Intelligence and Machine Learning	15	INYR	Core
7CS134	Data Mining and Analytics	15	INYR	Core
7CS123	Advanced Software Engineering	15	INYR	Core
7CS138	Web Development	15	INYR	Core
7CC016	Cloud Infrastructure and Platforms	15	INYR	Core
7CS132	Applied Database Systems	15	INYR	Core

March (Full-time)

Module	Title	Credits	Period	Type
7CS139	Computer Science Dissertation	60	INYR	Core

September (Full-time)

Module	Title	Credits	Period	Type
7CS133	Advanced Artificial Intelligence and Machine Learning	15	INYR	Core
7CS134	Data Mining and Analytics	15	INYR	Core
7CS123	Advanced Software Engineering	15	INYR	Core
7CS138	Web Development	15	INYR	Core
7CC016	Cloud Infrastructure and Platforms	15	INYR	Core
7CS132	Applied Database Systems	15	INYR	Core
7CS122	Research Methods & Professionalism	15	INYR	Core
7CS120	XR Application Development	15	INYR	Core

September (Full-time)

Module	Title	Credits	Period	Type
7CS139	Computer Science Dissertation	60	INYR	Core

November (Full-time)

Module	Title	Credits	Period	Type
7CS123	Advanced Software Engineering	15	INYR	Core
7CS138	Web Development	15	INYR	Core
7CC016	Cloud Infrastructure and Platforms	15	INYR	Core
7CS132	Applied Database Systems	15	INYR	Core
7CS122	Research Methods & Professionalism	15	INYR	Core
7CS120	XR Application Development	15	INYR	Core

November (Full-time)

Module	Title	Credits	Period	Type
7CS133	Advanced Artificial Intelligence and Machine Learning	15	INYR	Core
7CS134	Data Mining and Analytics	15	INYR	Core

November (Full-time)

Module	Title	Credits	Period	Type
7CS139	Computer Science Dissertation	60	INYR	Core

Please note: Optional modules might not run every year, the course team will decide on an annual basis which options will be running, based on student demand and academic factors, to create the best learning experience.

Learning, Teaching and Assessment

Regulations Exemption:

Exemption from the University’s standard academic framework 1.3.1 allowing for the use of 15 credits modules taught at Level 7.

Reference Points:

UK Quality Code for Higher Education

Qualifications and Credit Frameworks

Subject Benchmark Statements

University Policies and Regulations

Equality Act 2010: guidance - GOV.UK

Apprenticeship Standard

Overview of Assessment:

Learning Outcomes	Modules

Learning Outcomes	Modules
PGCERT01 Critical evaluate and apply current theories, concepts and insights informed by, the forefront of your academic discipline, field of study or area of professional practice (Knowing)	7CC016 Cloud Infrastructure and Platforms 7CS123 Advanced Software Engineering 7CS132 Applied Database Systems 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics 7CS138 Web Development
PGCERT02 Demonstrate in-depth knowledge and practical and/or professional skills in your discipline. (Knowing)	7CC016 Cloud Infrastructure and Platforms 7CS120 XR Application Development 7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering 7CS132 Applied Database Systems 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics 7CS138 Web Development
PGCERT03 Make informed decisions on complex issues, and communicate your conclusions clearly to different audiences. (Doing)	7CS120 XR Application Development 7CS132 Applied Database Systems 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics
PGCERT04 Demonstrate self-direction and originality in tackling and solving problems, and act autonomously in planning and implementing tasks at a professional or equivalent level. (Doing)	7CS120 XR Application Development 7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering 7CS132 Applied Database Systems 7CS134 Data Mining and Analytics 7CS138 Web Development
PGCERT05 Critically analyse, identify and utilise various study methods to improve your own performance. (Being)	7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering 7CS133 Advanced Artificial Intelligence and Machine Learning
PGCERT06 Reflect on your own achievements, identify future goals and plan for a further career or study (Being)	7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering
PGDIP01 Demonstrate critical evaluation of current theories, concepts and insights informed by, the forefront of your academic discipline, field of study or area of professional practice. Show how you have applied this knowledge in original and insightful ways. (Knowing)	7CC016 Cloud Infrastructure and Platforms 7CS123 Advanced Software Engineering 7CS132 Applied Database Systems 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics 7CS138 Web Development
PGDIP02 Demonstrate in-depth knowledge and practical and/or professional skills in your discipline. (Knowing)	7CC016 Cloud Infrastructure and Platforms 7CS120 XR Application Development 7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering 7CS132 Applied Database Systems 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics 7CS138 Web Development
PGDIP03 Make informed decisions on complex issues, and communicate your conclusions clearly to different audiences employing discipline conventions and expectations. (Doing)	7CS120 XR Application Development 7CS132 Applied Database Systems 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics

Learning Outcomes	Modules
PGDIP04 Demonstrate self-direction and originality in tackling and solving problems, acting independently and autonomously in planning and implementing tasks at a professional or equivalent level. (Doing)	7CS120 XR Application Development 7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering 7CS132 Applied Database Systems 7CS134 Data Mining and Analytics 7CS138 Web Development
PGDIP05 Critically analyse, identify and utilise various study methods to improve your own performance. (Being)	7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics
PGDIP06 Reflect on your own achievements and plan for a future career or further study (Being)	7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering
MA01 Demonstrate the qualities and transferable skills necessary for employment requiring: (a) the exercise of initiative and personal responsibility (b) decision-making in complex and unpredictable situations (c) the independent learning ability required for continuing professional development.	7CS120 XR Application Development 7CS122 Research Methods & Professionalism 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics 7CS138 Web Development 7CS139 Computer Science Dissertation
MA02 Display mastery of the principles and practices of advanced Computer Science topics; integrate and apply knowledge and skills to complex problems in a new area or form.	7CC016 Cloud Infrastructure and Platforms 7CS123 Advanced Software Engineering 7CS138 Web Development 7CS139 Computer Science Dissertation
MA03 Apply appropriate tools and advanced techniques to develop sophisticated solutions to real world computer science requirements.	7CC016 Cloud Infrastructure and Platforms 7CS123 Advanced Software Engineering 7CS132 Applied Database Systems 7CS133 Advanced Artificial Intelligence and Machine Learning 7CS134 Data Mining and Analytics 7CS138 Web Development 7CS139 Computer Science Dissertation
MA04 Demonstrate expertise in programming; apply well-chosen techniques and methodologies to generate sophisticated applications through team work.	7CS120 XR Application Development 7CS123 Advanced Software Engineering 7CS138 Web Development
MA05 Make informed judgments in the use of the modern tools and techniques available to computer scientists to have deliver solutions locally or/and in the cloud.	7CC016 Cloud Infrastructure and Platforms 7CS120 XR Application Development 7CS122 Research Methods & Professionalism 7CS123 Advanced Software Engineering 7CS132 Applied Database Systems 7CS138 Web Development
MA06 Conduct research into advanced areas of Computer Science; apply and extend an understanding of the nature of research and development; demonstrate the professional skills required to produce a high-quality deliverable and communicate results clearly through appropriate media.	7CS120 XR Application Development 7CS122 Research Methods & Professionalism 7CS139 Computer Science Dissertation

Teaching, Learning & Assessment Strategy/(Learning and Teaching):

- Teaching on this course is structured through a block delivery model that supports flexible entry points while still providing a coherent postgraduate learning experience. Because students may begin the course at different points in the academic year, each block is designed to stand as a meaningful stage of study while also contributing to the overall development of your computer science knowledge and skills. Across the course, you will engage with a broad range of themes, including software development, artificial intelligence, machine learning, data mining, web and mobile app development, XR development and databases. This structure allows you to build confidence progressively, wherever you begin, and supports your movement towards more advanced analysis, independent enquiry and the dissertation.
- You will learn through a mixture of lectures, seminars, workshops, guided laboratory activity, structured tasks, directed reading and independent enquiry. Some sessions focus on introducing tools and techniques. Others are more applied, requiring you to investigate, design and solve solutions to specific challenges in a practical or scenario-led way. The virtual learning environment supports this by providing access to materials, activities and communication that help you prepare for class and continue learning between taught sessions.

- The course also develops the broader capabilities needed for success at postgraduate level. You will strengthen your ability to work with technical information, assess evidence, use professional tools, communicate clearly, work collaboratively where appropriate, and manage your own learning effectively. These academic and digital capabilities are developed through the modules themselves.
- Professional relevance runs throughout the course. You will work with realistic computer science challenges, industry tools and current issues so that academic study is consistently linked to practice.

Assessment Methods/Assessments:

- At the University of Wolverhampton, a variety of modes of assessment will be used to support and test your learning and progress and to help you develop capabilities that are valued beyond your university studies and into your working life.
- Your course may include a variety of assessment activities:

a. Coursework (for example, essays, reports, portfolios, project proposals and briefs, CVs, poster presentation)

a. Practical (for example, oral and video presentations, laboratory work, practical skills assessment)

a. At the end of your postgraduate degree, you are likely to be expected to write an extended piece of work or research, such as a dissertation or a practice-based piece of research

Further Information for Student:

- Prior to joining the course students are given access to a free two-week induction programme in mathematics and programming to equip them with the core skills needed to succeed. This induction programme will be available to students all year round and additional support with mathematics and programming will be provided as needed by the expert support team at the University.
- With the guaranteed University placement opportunity, you will be supported by a team to help you in this newfound position.
- All modules will give you formative feedback to help you improve in your studies and assessments.

Currency:

- Computer science is a fast-moving subject which makes it exciting as the course is constantly being evolved to meet this. Being static is not enough in this subject area and staff are constantly introducing new concepts, tools and techniques to meet this. This means the course is not fixed around a fixed view of the subject; it is intended to remain responsive to the pace of change in the field.
- The course is further strengthened by the fact that the University's computing courses are accredited by the BCS, the Chartered Institute for IT. This provides an important external benchmark for academic quality, professional relevance and curriculum standards. In addition, the course is informed by an Industry Advisory Group, which supports the University in keeping its computing provision aligned with current employer needs, emerging technologies and developments in the wider digital economy. Together, these mechanisms help ensure that the course continues to reflect the expectations of industry and the profession.
- Research is an important part of the course. You will engage with scholarly and professional sources throughout your studies, and modules will place great emphasis on research design, critical evaluation and independent investigation. This develops your ability to question claims, weigh evidence and build well-supported arguments of your own
- The department of Computer Science has a very active research portfolio, and staff will be actively involved in exposing you the latest developments in their subject area that is relevant to your course.
- Your dissertation is a key element in developing your own research skills, critical thinking and look at the latest developments in the field of your work. This gives you a chance to demonstrate all that you have learned and apply it to a specific problem of your choice. You will have guidance of your own tutor, but it is essentially driven by you, and an excellent opportunity to bring together all your new knowledge and skills.

Personalisation Opportunities:

- The modules and their assessment typically involve a self-directed way to approach a problem that has been set. Their will lots of opportunities to solve real world problems to give you the thought processes and tools needed in your future career. The emphasis in the modules is not to just solve a problem, but to explore and personalise your response to this, and this will take into your own self-directed research and apply techniques that you have discovered to bring a solution. The dissertation is an excellent opportunity for you to explore and delve deep into a subject that greatly interests you and apply all that you have learnt.
- You are also supported in shaping your learning through academic guidance from module tutors and your supervisory support during the dissertation. This helps you make informed choices about assessment topics, project ideas and areas for further investigation, while ensuring that your work remains academically rigorous and professionally relevant.
- Personal development is key to your studies, and you will be able to call on the support of academic staff, and the material you will cover in your studies is designed to shape and improve those.
- The course material is developed to encourage you to think creatively and critically about real-world challenges, including those that may be related to sustainability, enterprise, and social responsibility?
- The course is designed to be inclusive and meaningful for a diverse student body. Learning materials, case studies and discussions encourage you to consider different perspectives, organisational contexts and social impacts of the application of computer science technology. You are encouraged to draw on your own experiences, reflect on your progress and use feedback to shape your development as an informed and responsible cyber security professional.
- Part of the aims of the course is to develop your soft skills of collaboration with others and conversely to work as an individual to solve a real-world problem and then present this to an interested audience. This mirrors exactly the skills required in a modern workplace environment that you will progress to after the course
- Throughout the course, you are supported to reflect on your progress, respond to feedback and make choices that help you grow into a confident, skilled and self-aware Computer Scientist.

Employability in the Curriculum/Employability and Professional Development:

- Employability of graduates is a core focus throughout this course where emphasis is consistently placed on real world applications in Computer Science and its

subjects and form the heart of the project module. The curriculum develops knowledge and skills relevant to roles such as software developer, web and mobile developer, IT consultant, AI and Machine Learning specialist, games developer, etc.

- Professional development is built into the course through applied learning, realistic scenarios, technical exercises, research tasks and professional presentations. You will develop both specialist computer science expertise and wider transferable skills such as communication, teamwork, critical thinking, problem solving, evidence-based decision-making and independent learning. These are important for success across a wide range of professional settings and help you build a strong and credible professional identity.
- The course is informed by current professional practice and designed with awareness of industry expectations. Learning activities and assessments emphasise responsible decision-making, ethical practice, legal and regulatory awareness, and the ability to work effectively with complex technical and organisational problems. Through lab-based work and scenario-driven tasks, you will engage with tools, platforms and methods that reflect contemporary professional computer science engineering workplace experiences.
- The University wide scheme of guaranteed placement for taught postgraduate courses is an excellent opportunity to gain real life transferable skills. The diverse skills acquired in this course will position graduates perfectly to take advantage of the skills shortages in computer science related careers across a broad spectrum of employers.

