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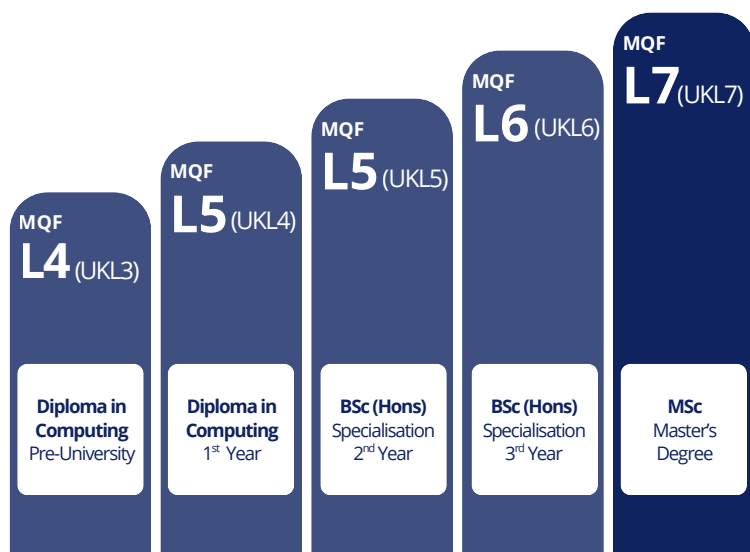


MSc Computer Science

Master's Degree

The MSc Computer Science is ideal for students with an undergraduate degree in Computer Science or a closely related field. This course will develop a depth of knowledge across several specialised or applied areas, and students will be encouraged to independently synthesise information and novel ideas in chosen areas of Computer Science, as well as evaluate or argue alternative approaches. The award will promote a professional attitude in students wishing to enter employment within the field of Computer Science and enhance the career prospects of all students.

This postgraduate degree builds upon some of the fundamental undergraduate areas to give the students a deeper knowledge and understanding. This award has a strong practical element, enhancing the underpinning knowledge with a range of practical skills designed to enhance the students' career prospects. The degree will enhance students' academic and professional skills, and students will be able to approach a variety of high level roles with confidence, in areas such as software development, systems analysis and consultancy.



MSc Computer Science

UK L7 - MQF L7

Credits

180 CATS - 90 ECTS

Awarding Body

University of Wolverhampton



Study Mode & Duration

Full-Time: One year

Part-Time: Two years

Assessments

Examinations and coursework assignments

Entry Requirements

- Recognised undergraduate degree in a related field AND
- English language certification such as O Level or IELTS 6.5 with a minimum of 6.0 in each area or equivalent

Relevant work experience is considered



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MSc Computer Science

Data Science and Data Mining

Learn core data science principles, including data capture, maintenance, processing, analysis, and communication. Gain an introduction to data mining and the knowledge discovery process, with practical examples. Apply state-of-the-art software and algorithms in real-world case studies to develop practical data handling and analytical skills.

Immersive Application Development

Explore immersive technologies, including virtual, augmented, and mixed reality, and their integration with digital environments to create applications and experiences. Examine use cases across industries such as healthcare, safety-critical operations, and defence. Gain practical skills in designing and developing immersive solutions for diverse professional contexts.

Mobile Application Development

Develop skills for designing, implementing, and testing mobile applications. Gain knowledge of contemporary mobile platforms, tools, techniques, and development approaches, while addressing usability, performance, and security challenges. Learn to create robust, user-focused solutions for modern mobile environments.

Web Technologies

Build web applications using HTML5, CSS3, Ajax, and Web Services, incorporating accessibility, semantic structure, and mobile-friendly design. Explore recent advances in web development with modern MEAN stacks to create functional, adaptable, and user-friendly online experiences.

Advanced Artificial Intelligence and Machine Learning

Study selected advanced concepts of machine learning, including philosophy, optimisation, linear algebra, big data, and information theory. Explore algorithms for learning and optimisation to build AI systems, focusing on theory and implementation over mathematical proofs. Gain hands-on experience with multiple programming languages and extend your knowledge to advanced ML applications.

Research Methods in Computing

Develop the skills to design and conduct postgraduate research in computing. Explore research methodologies, professional conduct, and the legal, social, and ethical implications of your work, following BCS guidelines. Prepare to undertake substantial, academically rigorous research projects.

ITM and Computer Science Dissertation

Whether you decide to progress to further study or to a career in industry, one of the most important skills expected of an effective graduate in Information Technology Management or Computer Science is the ability to work creatively under the appropriate guidance of an organisation. It is therefore essential that you use and develop the skills and knowledge gained from other modules and from your wider educational and/or working background in a major integrative exercise. This project module is the ideal vehicle for this purpose. You will be expected to develop an idea (guided by a member of academic staff) and demonstrate your ability to develop it further, producing a suitable artefact by applying your technical, analytical, practical and managerial skills.

