MSc Computer Science

The MSc Computer Science is a one-year degree that aims to produce highly employable graduates that are educated at the forefront of research.

The course offers the opportunity to study subjects that reflect the research strengths of the School of Computer Science. These include:

- The mathematical foundations of programming
- Automated scheduling and planning
- Artificial intelligence
- Human computer interaction
- Modelling
- Interactive systems

These subjects will ensure students are equipped to take leading roles in software development and research, where the demands of reliability and efficiency are particularly important.
MSc Computer Science

Course structure
The course is an ideal next step following a first degree in computer science subjects or related disciplines.

It is offered on a full-time basis over one year. The course consists of 180 credits, split across 120 credits’ worth of compulsory and optional modules and a 60-credit research project.

The first semester provides a rigorous basis for the development of advanced software. Students without a strong background in computer science will take compulsory modules in: Programming in Python; Systems and Networks; Databases, Interfaces and Software Design Principles. Students with a first degree in computer science can choose options from a range of more advanced topics.

The second semester provides the opportunity to specialise in an area close to the research strengths of the School. This specialisation is reinforced by the individual project completed over the summer months.

Modules
The following are examples of modules that may be chosen. Please note that module details are subject to change.
• Advanced Algorithms and Data Structures
• Autonomous Robotics Systems
• Data Modelling and Analysis
• Design Ethnography
• Fuzzy Logic and Fuzzy Systems
• Games
• Linear and Discrete Optimization
• Machine Learning
• Mixed Reality Technologies
• Software Engineering Management

Research Project
Towards the end of the course, you will undertake a research project in computer science. This project involves conducting a piece of research carried out under the supervision of a member of academic staff.

Facilities and resources
Situated in purpose-built facilities on our Jubilee Campus, the school provides the latest in advanced teaching technologies and high-speed networking as well as first-rate facilities for research into automated scheduling and optimisation, mixed reality, foundations of programming, and image processing.

Career opportunities
This course prepares its students for careers in advanced software development, particularly where reliability and efficiency are vital requirements. Students will graduate with the skills necessary to assume leading roles in major software-development projects.

This course also provides an excellent foundation for further study and/or progression to a PhD.

The University’s Careers and Employability Service is also an invaluable resource when you are researching and pursuing your chosen career. All our graduates have access to the service for life, find out more at www.nottingham.ac.uk/careers

Entry requirements
Applicants are usually required to have a 2:1 honours degree (or its international equivalent) in a relevant subject with evidence of an interest or aptitude for programming. Graduates from a science or engineering background will be considered with a 55% average mark.

Applicants whose first language is not English must also achieve an IELTS score of 6.5 (with a minimum score of 6.0 in each element).

Funding
Information on funding for home and EU students can be found at www.nottingham.ac.uk/graduateschool/funding

Information on funding for international students can be found at www.nottingham.ac.uk/studywithus/international-applicants/scholarships-fees-and-finance

How to apply
Candidates are encouraged to apply online at pgapps.nottingham.ac.uk

Enquiries
For further information, please contact:
Admissions
t: +44 (0)115 951 4749
w: www.nottingham.ac.uk/enquire

To request this information in an alternative format:
t: +44 (0)115 951 4591
e: alternativeformats@nottingham.ac.uk