BSc Computer Science

BSc Computer Science / Course details

Year of entry: 2022

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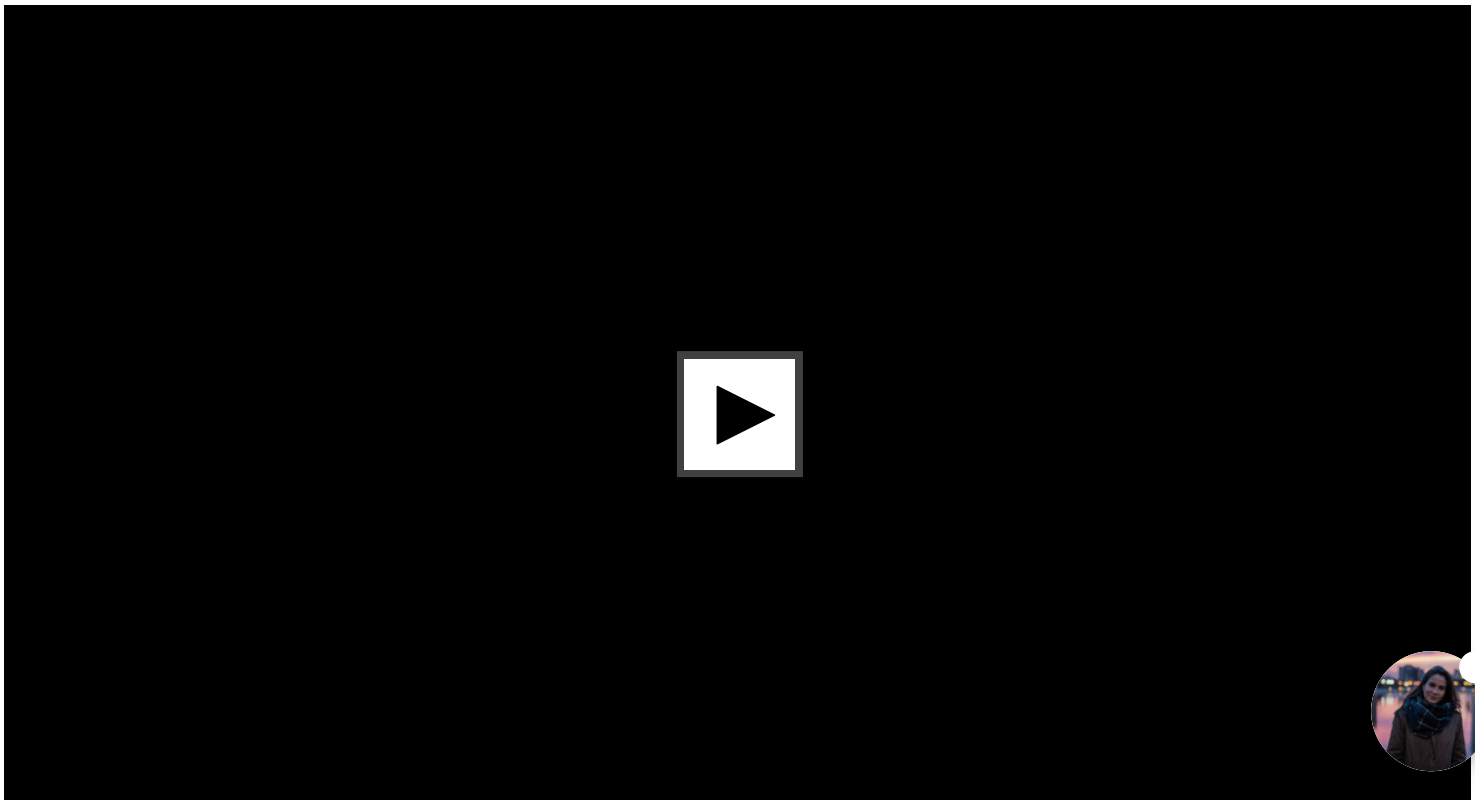
Course description

Through the development of new applications in science, engineering, and business, Computer Science is radically changing the way in which we experience our world. This programme equips students with the skills needed to contribute to this exciting and rapidly evolving field.

Computer Science is our most flexible programme, allowing you to chose course units to reflect your developing and changing interests. Furthermore, a wide range of themes from across the discipline allow you to specialise in the second and third years.

You will gain not only knowledge and practical experience of the latest technologies, but also a grounding in the underlying principles of the subject. It is this combination of skills that enable our graduates to keep pace with this fast moving subject, and secure rewarding careers that can be pursued almost anywhere in the world.



Special features

A broad and flexible programme that provides the freedom to choose from an extremely wide range of Computer Science topics.

Equips students with skills that are in high demand from industry (http://www.cs.manchester.ac.uk/industry/)

Teaching and learning

At Manchester we aim to provide a unique experience. Studying Computer Science with us will give you the chance to follow your academic curiosity and explore a fascinating subject.

A significant amount of your work will be project-based team work, tackling real problems. You will see how computer science is directly applicable to solving problems, across a broad range of areas.

The emphasis throughout is on independent learning, supported by regular meetings in small groups with personal tutors. You receive practical help and support from experienced staff and postgraduates, with leading experts guiding your learning and stimulating your interest. This approach is supported by conventional lectures and comprehensive on-line learning resources. We also provide excellent facilities, including specialist laboratories to support areas such as engineering and robotics.

Coursework and assessment

Unseen examinations account for about 60% of the assessment . These assess your abilities in the selection and application of knowledge, problem solving, and the design and evaluation of software or electronics. Other assessment is mainly through laboratory-based coursework that provides you with the opportunity to demonstrate your understanding of computer science of electronic principles by tackling specific problems on a more realistic scale, both individually and in groups.

The remaining assessment is through presentations and essays where, in particular, you demonstrate the transferable skills you have acquired. In the third and final year, the non-examination assessment is mainly made up of the practical project.

Course content for year 1

Course units for year 1

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional
First Year Team Project (COMP10120#course-unit-details)	COMP10120	20	Mandatory
Mathematical Techniques for Computer Science (COMP11120#course-unit-details)	COMP11120	20	Mandatory
Fundamentals of Computation (COMP11212#course-unit-details)	COMP11212	10	Mandatory
Fundamentals of Computer Engineering (COMP12111#course-unit-details)	COMP12111	10	Mandatory
Data Science (COMP13212#course-unit-details)	COMP13212	10	Mandatory
Fundamentals of Computer Architecture (COMP15111#course-unit-details)	COMP15111	10	Mandatory
Operating Systems (COMP15212#course-unit-details)	COMP15212	10	Mandatory
Introduction to Programming 1 (COMP16321#course-unit-details)	COMP16321	20	Mandatory
Introduction to Programming 2 (COMP16412#course-unit-details)	COMP16412	10	Mandatory

Course content for year 2

Course units for year 2

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional

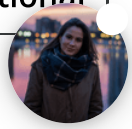
Title	Code	Credit rating	Mandatory/optional
Software Engineering 1 (COMP23311#course-unit-details)	COMP23311	10	Mandatory
Software Engineering 2 (COMP23412#course-unit-details)	COMP23412	10	Mandatory
Programming Languages & Paradigms (COMP26020#course-unit-details)	COMP26020	20	Mandatory
Algorithms and Data Structures (COMP26120#course-unit-details)	COMP26120	20	Mandatory
COMP - Careers Yr 2 (COMP2CARS#course-unit-details)	COMP2CARS	0	Mandatory
Fundamentals of Management (BMAN10011#course-unit-details)	BMAN10011	10	Optional
Fundamentals of Technological Change (BMAN10252#course-unit-details)	BMAN10252	10	Optional
Fundamentals of Finance (BMAN10552#course-unit-details)	BMAN10552	10	Optional
Business Economics (BMAN10612#course-unit-details)	BMAN10612	10	Optional
Fundamentals of Financial Reporting B (BMAN10621B#course-unit-details)	BMAN10621B	10	Optional
Displaying 10 of 37 course units for year 2			
» Display all course units for year 2			

Course content for year 3

Course units for year 3

The course unit details given below are subject to change, and are the latest example of the curriculum available on this course of study.

Title	Code	Credit rating	Mandatory/optional



Title	Code	Credit rating	Mandatory/optional
Third Year Project Laboratory (COMP30040#course-unit-details)	COMP30040	40	Mandatory
Introduction to Corporate Finance and Financial Instruments (BMAN20242#course-unit-details)	BMAN20242	10	Optional
Technology, Strategy and Innovation (BMAN20792#course-unit-details)	BMAN20792	10	Optional
Managing Business Operations (BMAN20811#course-unit-details)	BMAN20811	10	Optional
New Product Development and Innovation (BMAN20821#course-unit-details)	BMAN20821	10	Optional
Marketing (BMAN20832#course-unit-details)	BMAN20832	10	Optional
Global Contexts of Business and Management (BMAN21012#course-unit-details)	BMAN21012	10	Optional
Chinese Business (BMAN24501#course-unit-details)	BMAN24501	10	Optional
Organisations and Employment (BMAN24521#course-unit-details)	BMAN24521	10	Optional
Work Psychology For Career Success (BMAN24571#course-unit-details)	BMAN24571	10	Optional
Displaying 10 of 43 course units for year 3			
» Display all course units for year 3			

Scholarships and bursaries

The University of Manchester is committed to attracting and supporting the very best students. We have a focus on nurturing talent and ability and we want to make sure that you have the opportunity to study here, regardless of your financial circumstances.

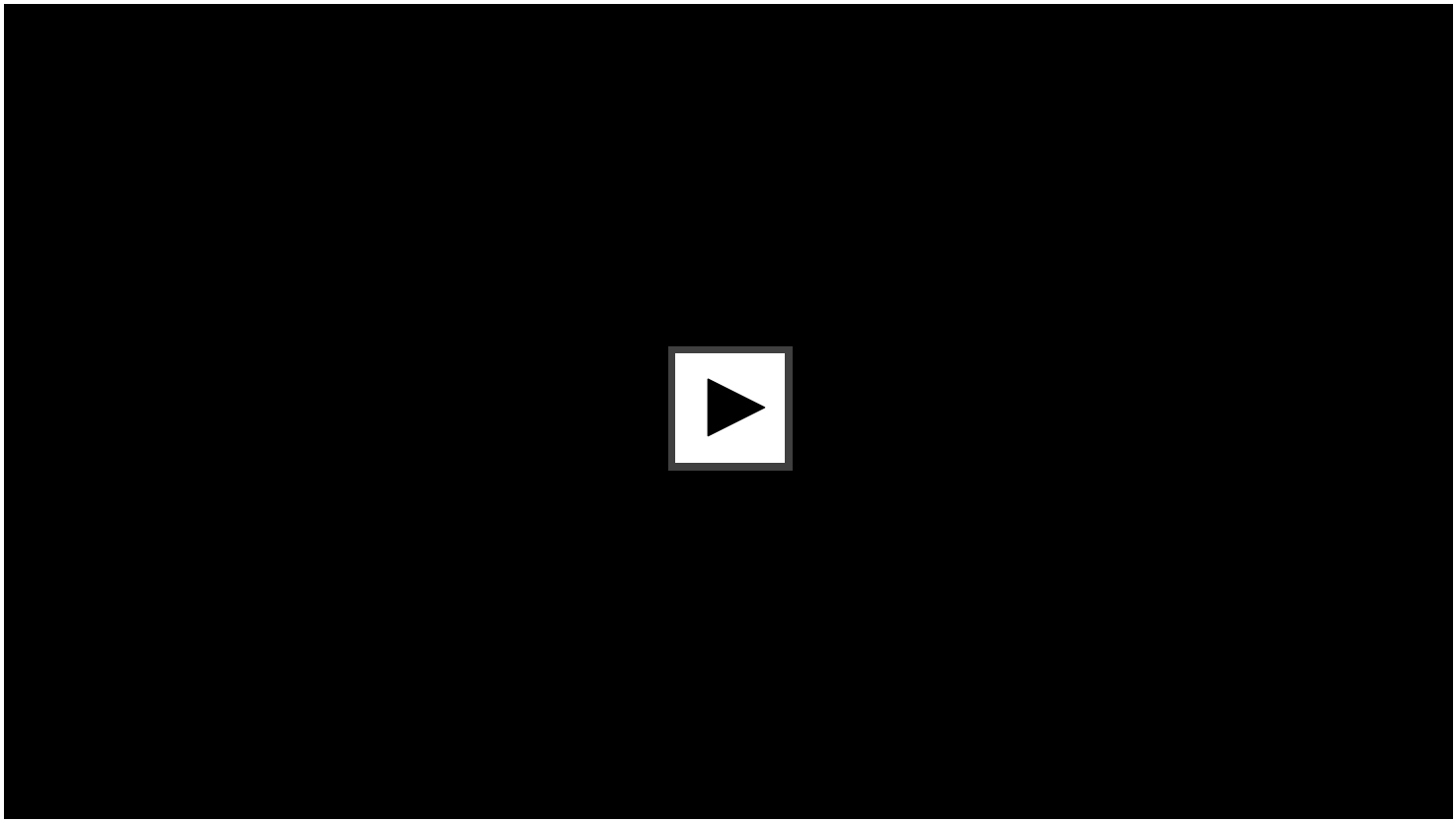
For information about scholarships and bursaries please visit our undergraduate student fin... pages (https://www.manchester.ac.uk/study/undergraduate/student-finance/) .

What our students say

Todd Davies, BSc Computer Science
I always has the mind-set in my degree that I was learning how to learn. I feel like the BSc in Computer Science gives you a very holistic view of the subject, all the way from logic gates to high-level modules like Computer Vision.

Seb Masaru, BSc Computer Science

The community, the Department, the University, and the city itself are so vibrant in Manchester. You get the sensation that the people here are all extremely approachable.



Computer Science @ Manchester - What our students say?

Facilities

As you would expect from leaders in the field, we offer some of the most up to date facilities in the world. Amongst the wide range of facilities available to you are:

- Newly refurbished computing labs furnished with modern desktop computers, available with Linux and Windows
- Access to world leading academic staff

Collaborative working labs complete with specialist computing and audio visual equipment to support group working.

Over 300 computers in the Department dedicated exclusively for the use of our students.

Access to a hardware library, with top of the range equipment, including drones, robots and oculus rifts.

Students working in the Collabs, Kilburn Building

Disability support

Practical support and advice for current students and applicants is available from the Disability Advisory and Support Service. Email: dass@manchester.ac.uk (mailto:dass@manchester.ac.uk)

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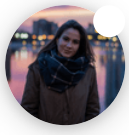
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