



Manchester  
Metropolitan  
University

Faculty of Science and Engineering  
School of Computing, Mathematics  
and Digital Technology

**MSc Computing**  
**MSc Advanced Computing**  
**MSc by Research in Advanced Computing**  
**MSc Digital Media Computing**  
**MSc Information Systems**  
**MSc Mobile Application Development**



**Our postgraduate courses aim to equip you for your future career, whether you want to work in the IT industry, are already employed in it, or anticipate a research career.**

**Duration:**

12 calendar months full time,  
and flexible part time  
(usually takes three years)

**Enrolment:**

all courses start in September;  
it is also possible to commence  
MSc by Research in Advanced  
Computing in January

**Contact:**

Martin Hancox, programme leader:  
+44 (0)161 247 1489  
m.hancox@mmu.ac.uk  
Or to make a course enquiry, go to  
[www.mmu.ac.uk/course-enquiry](http://www.mmu.ac.uk/course-enquiry)

MSc Computing and MSc Information Systems are for non-computing graduates.

MSc Advanced Computing, MSc Digital Media Computing, MSc Mobile Application Development and MSc by Research in Advanced Computing are for computing graduates.

Courses run full time and part time. Single units can be taken as part of continuing professional development.

**Programme content and structure**

All MSc awards require 180 credits. Interim awards of Postgraduate Diploma (120 credits) and Postgraduate Certificate (60 credits) are also available. All taught units are 20 credits.

**MSc Computing**

Mandatory generic units are Object Oriented Programming; Multimedia and Internet Applications; and Information Systems. Plus three specialist option units from the list below, excluding Computer Games Programming & Design, 3D Computer Animation, Advanced Mobile Development and Cognitive Computer

Facilities for our postgraduate students are excellent. The School has an extensive range of equipment in its own specialist laboratories, supported by a dedicated team of technical staff.

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Vision; and a 60 credit practical solo project not in the areas of digital media computing or mobile application development.

### **MSc Information Systems**

As for MSc Computing, except that Information Systems Management & Strategy is also mandatory; and the solo project is non-technical.

### **MSc Advanced Computing**

Six specialist option units, some of which can be taken from the mandatory MSc Digital Media Computing and MSc Mobile Application Development units; plus a 60 credit practical solo project not in the areas of digital media computing or mobile application development.

### **MSc Digital Media Computing**

Mandatory units are Computer Games Programming and Design; 3D Computer Animation; and at least one further unit from Multimedia Authoring, Multimedia Technologies, Computer Music and Sound, and Cognitive Computer Vision. Plus a maximum of three other specialist units, excluding Advanced Mobile Development. Includes a 60 credit practical digital media computing solo project.

### **MSc by Research in Advanced Computing**

As for MSc Advanced Computing, except that only three specialist option units are studied, and the project is worth 120 credits.

### **MSc Mobile Application Development**

Mandatory units are Mobile Computing and Advanced Mobile Development; and at least one from Enterprise Programming and Ubiquitous Computing. Plus a maximum of three other specialist units. Includes a 60 credit practical mobile application development project.

### **Specialist units<sup>†</sup>**

Artificial Intelligence Systems; 3D Computer Animation; Computer Games Programming and Design; Cognitive Computer Vision; Internet Programming; Mobile Computing; Enterprise Programming; Information Systems Management & Strategy; Advanced Database Systems; Multimedia Technologies; Multimedia Authoring; Natural Computing; Software Architectures; Ubiquitous Computing; Advanced Mobile Development; Computer Music and Sound.

<sup>†</sup> Please note that not all units will run in any one year.

### **Assessment**

The three generic units on MSc Computing and MSc Information Systems are assessed by coursework only. Specialist units are assessed by coursework and examination. Projects require the submission of a dissertation.

### **Career development opportunities**

The IT industry consists of many different roles, and so most of our courses allow you to keep your options open by retaining breadth of study while allowing for some specialisation through choice of units and the project. If you study the more specialised MSc Digital Media Computing or MSc Mobile Application Development, at least half of your taught units plus the project will be in your chosen field. Our MSc graduates have entered a wide range of industries, and several have gone on to PhDs, including in the School of Computing, Mathematics and Digital Technology.

“I am very grateful for all of the effort and time of the teaching staff on the MSc and have recommended the course to many people. I have thoroughly enjoyed every minute of it, the class was a wonderful group of people and I have gained a vast amount of knowledge that I will take with me in my career.”

**Rachel Jones, MSc Computing**, who joined IBM as an IT Specialist straight after finishing the course. See our website for further student comments.

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### Special features

**Facilities** for our postgraduate students are excellent. The School has an extensive range of equipment in its own specialist laboratories, supported by a dedicated team of technical staff. The main University library, with excellent conventional and electronic holdings, is in the building next door.

**Research** in the Department has been rated highly in each of a series of national Research Assessment Exercises held since the 1990s. In the 2008 exercise, 75% of the work submitted in Computer Science and Informatics was rated as at least ‘internationally recognised’, with 30% of it ‘internationally excellent’ and some of the work rated as ‘world leading’.

**Flexibility** is a key feature of our courses. Part time students usually aim to complete in three years, but can take longer if required as they choose their study workload to suit their changing circumstances. Classes are concentrated on certain days of the week, to facilitate part timers’ attendance, and to allow full time students to undertake some part time employment if necessary. All students benefit from extensive use of a virtual learning environment, so that they do not fall behind if they have to miss the odd class. Units can be taken with or without assessment as part of continuing professional development.

Our **location** at the city centre end of Oxford Road in central Manchester is extremely convenient, with frequent bus services directly outside, and a local railway station nearby. The main Piccadilly railway station, with associated national rail and local tram services, is a fifteen minute walk away.





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This publication is available in alternative formats.  
Please telephone 0161 247 1627.

### **Further information**

For further information please visit our website  
[www.scmdt.mmu.ac.uk](http://www.scmdt.mmu.ac.uk)

or contact Martin Hancox, programme leader:

**+44 (0)161 247 1489**

or [m.hancox@mmu.ac.uk](mailto:m.hancox@mmu.ac.uk)

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As part of its continuing drive to deliver the very best quality programmes for students MMU is undertaking a review of the structure and processes which underpin them. Students joining the university in September 2011 will be the first to benefit from changes aimed at providing the very best learning experience.

This information is correct at the time of going to press. For terms and conditions applicable to the provision of the University's Educational Services please refer to the prospectus. February 2011.