Welcome to the JMC Degree Programme

JMC – Degree Overview

Year 1 - levelling the playing field

providing you with the programming, computing and mathematical foundations needed for the course in later years.

Year 2 - big systems and specialising

learning the principles of engineering large systems, such as operating systems and compilers, and choosing your mathematical specialism(s).

Year 3 - breadth of knowledge and experience

the BEng year gives you lots of choice about what you learn, with the modules in this year getting you to the cutting edge of professional/industry level practices

Year 4 - depth of knowledge and experience

the MEng year also has lots of choice about what you learn, with the modules in this year getting you to the cutting edge of research

JMC Year 1 - All Core Modules

MATH40009 Introduction to University Maths	Term 1 5ECTS	Intensive 4 week course aimed at getting you to think like a University Mathematician
COMP40009 Computing Practical 1	Terms 1,2&3 20ECTS	Learning to programme following principled and robust techniques (Haskell, Kotlin, Java & C)
MATH40002 Analysis I	Terms 1&2 10ECTS	Introduction to Mathematical Analysis, the core of many pure maths modules in later years
MATH40004 Calculus and Applications	Terms 1&2 10ECTS	Introduction to Calculus, the core of many applied maths and computing modules in later years
MATH40012 Linear Algebra and Groups	Terms 1&2 5ECTS	Introduction to Algebra for applied mathematics and Group Theory for pure mathematics
COMP40012 Logic and Reasoning	Terms 1&2 5ECTS	Learning the language and techniques necessary for formal reasoning and proofs
COMP40008 Graphs and Algorithms	Term 2 5ECTS	Core computing theory forming the basis of many modules in later years

You will end up taking **60ECTS** this year, **30ECTS** from each of **Maths** and **Computing**

JMC – Year 1 Support Structure

PPT (Personalised Programming Tutorials)
supporting the programming content of COMP40009 Computing Practical 1

PMT (Personalised Mathematics Tutorials)
supporting the theory content of COMP40012 Logic and Reasoning and COMP40008 Graphs and Algorithms

JMC Maths Catch-up Tutorials
supporting the mathematical content of all Year 1 Maths modules

PT (Personal Tutor)
first point of contact for your pastoral care needs (support for settling into Uni life, module options, CV reference and sign-post for other services)

ST (Senior Tutor)
the Department's pastoral care lead, able to provide extensive support/advice

Programme Directors (Mark Wheelhouse and David Ham)
in charge of the academic structure of the degree programme