

Computer Science BSc (Hons)



The Guardian
TOP 50
University Guide 2015

College of Engineering and Technology

 UNIVERSITY
of DERBY

www.derby.ac.uk/engineering-technology

Factfile

Where you'll study:

Derby Campus, Kedleston Road

UCAS code: I100

Entry requirements: 260 UCAS points

Duration and mode of study: Four years full-time, including a placement year

Fees: £9,000 per year

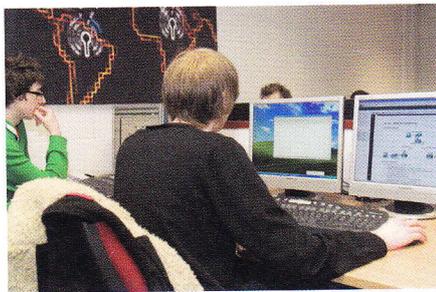
Start date: September

Why choose this course?

Computer software touches almost every aspect of our daily lives. Mobile apps, video games, websites and word processors are all the result of software development. Computer science is an important starting point for computer programmers who will develop software for a wide range of applications. Those who do well tend to have a good grounding in this subject area.

About the course

You'll study computer science and learn how to become a successful computer programmer. Throughout the course you'll gain the knowledge and develop the specific skills that the industry is looking for. In particular, you'll learn the foundations of computer science, software development and programming.



Teaching and learning

Modules are delivered through a mixture of lectures, tutorials and laboratory work. A considerable amount of e-learning support material is also provided. There will be a strong emphasis on practical programming skills and you'll use cutting-edge software development tools in our industry-quality labs. You'll also spend a year on a placement working alongside industry professionals which will give you a distinct advantage that will enhance your career.

Assessment

Assessment is done mostly through coursework, although in each year there is a small amount of computer-based exams. In the final year, one-third of the assessment is for a personal project.

Study modules

You'll explore the core topics of computer science including computer graphics, computer language design and implementation, databases, development for the web and mobile devices, software engineering and systems programming. During your time on placement you'll see how the knowledge and skills you have learnt are actually put into practice, giving you a distinct advantage when applying for jobs.

You'll study these modules:

Stage one

- Computational Mathematics
- Foundations of Computer Science
- Introduction to Computer Science
- Programming 1
- Subjects in Computer Science
- Programming 2

Stage two

- Application Development
- Databases
- Graphics 1
- Networks and Security
- Software Engineering
- Team Project

Placement year

Stage three

- Distributed Systems
- Cryptography and Coding
- Independent Studies – double module
- Language Design and Implementation
- Systems Programming

Your career

After graduating, you'll find that your highly developed skills in software development will be in demand in the industry. The majority of computing jobs require software development abilities and experience. This degree will help you to succeed in a range of jobs, including chief technology officer, project manager, software engineer or technical architect.

“As part of my course I took a placement year at Chiasma Data. This was extremely useful, not just for learning new programming for languages and techniques, but also for finding out more about me and my preferred style of working.”

Michael Powell
BSc (Hons) Computer
Science graduate



The University is a member of the Athena SWAN Charter which promotes and rewards good employment practice in the recruitment, retention and progression of female academics in STEM.

Contact

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