



STAFFORDSHIRE
UNIVERSITY

UCAS Code:
G401/G64T

BSc(Hons)/BEng(Hons) Computer Science

UNDERGRADUATE
COURSE INFORMATION

Key Facts

Faculty of Computing,
Engineering and
Technology

Location:
Stafford Campus

Duration:
3 years full-time
4 years with placement
year

Entry requirements:
Typical offer: 240 UCAS
points.
A levels: CCC and or
CCD plus C at AS.
BTEC: MMM.
All applicants are
individually assessed.
Detailed entry
requirements can be
found on each of our
online course pages or by
visiting [www.staffs.ac.uk/
ugentryrequirements](http://www.staffs.ac.uk/ugentryrequirements)

Accredited by:
BCS and IMIS



Available as a Top-up
from HND

At-a-glance

On graduating in Computer Science, you can pursue a career as a computer programmer, computer systems specialist or embedded system engineer. Recent graduates have taken up positions as system engineers, computer engineers and technical consultants.

Computer Science is the study of computers, their physical components (hardware), the operating system that allows programs to run and the software that controls what a computer does. You will learn how these work together and how they interface with the world outside the computer and you will learn how to build and control computer systems. Depending on the area in which you specialise, you will be able to study computer networks, intelligent controllers for production lines, real-time systems and many other topics.

You will gain a firm foundation in computing topics such as computer architecture, operating systems, networks, procedural and object-oriented programming, algorithms, systems analysis and design, and mathematics. If you enrol on the sandwich degree, you will spend your third year on a placement, applying your knowledge in the workplace and gaining hands-on experience. The final year introduces you to advanced subjects such as real-time systems, distributed computer systems, computer security and high-level computer systems design. In your final year, you will complete a major project, which includes the development of a substantial computing artefact.

Course Outline

Year 1

- Introduction to Software Development
- Hardware and Software Systems and Graphics
- Maths and Statistics for Computing Students
- Object Oriented and Event Driven Programming
- Algorithms and Data Structures in C
- Systems Modelling
- Introduction to Operating Systems.
- An Option Module chosen to reflect your own interests, for example, Networking with Lans and Wans, Introduction to Computer Games Programming, Web Development, Computer Security and Forensics and many other topics.

Year 2

- Professional and Enterprise Development
 - Database Systems
 - Principles and Practices of Software Production
 - Hardware and Software Systems and Networks 2
 - Systems Programming and Computer Control Systems
- Option modules include:
- Software Development including Programming Languages such as C++, C#, VB.Net, low level programming, Java.
 - Networking, Forensics, Web, Games Programming
 - Other modules are available

Optional placement year

Year 3

- Final Year Project
 - Real Time Systems
- Option modules include:
- Information Systems Engineering in Industry – core for BEng(Hons).
 - Distributed Computer Systems
 - Safety Critical and Embedded Systems
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STAFFORDSHIRE
UNIVERSITY

WHY STUDY AT STAFFORDSHIRE UNIVERSITY?

We have a reputation for preparing students to take on the world. Our courses deliver the skills and experiences employers value. Our lecturers know what it is you need to succeed in business because they're industry professionals. What we teach is not only quality assured but informed by the latest thinking and developments in the real world. And with excellent facilities, a lively social scene, and low cost of living, Staffordshire University is a great place to be a student.

The information in this leaflet is correct at the time of publication, but may be subject to change.

For the latest information visit www.staffs.ac.uk/undergraduate or call our enquiries team on 01782 294400.

Detailed entry requirements can be found on each of our online course pages or by visiting www.staffs.ac.uk/ugentryrequirements

For full, up-to-date details of our degrees and other courses, visit: www.staffs.ac.uk/undergraduate

For lots of friendly help and advice:
Call: 01782 294400
Email: enquiries@staffs.ac.uk

■ CREATE THE DIFFERENCE