About Southampton

The University of Southampton is one of the UK's leading universities and has an outstanding reputation for Electronics and Computer Science. Southampton is a member of the prestigious Russell Group of research universities, and Electronics and Computer Science are consistently placed in the top ranks of the subject league-tables. Our graduates are highly regarded by leading employers, and we work closely with industrial partners, both in our research and our teaching.

Our 2016 course is a great way to find out more about subjects which are now fundamental for the future development of society, as well as providing a strong base for making future choices.

We are committed to outreach and public engagement and have hosted summer schools and residential courses for many years, including one on electronics in 2014 and Electronics and Computer Science in 2015. These received very high ratings from the students who attended and you can see some of their experiences in the photos throughout this brochure.

Dr Geoff Merrett, Course Leader, started at the University of Southampton as a student in 2001. He is now associate professor of electronic and software systems, and lectures on digital electronics, computer networks and engineering skills. He is the senior admissions tutor for Electrical and Electronic Engineering.

Dr Reena Pau, Course Coordinator, leads outreach activities in Electronics and Computer Science at the University of Southampton, and has a personal interest in gender and STEM. She has a PhD from the University of Southampton and the research investigates how to increase the number of women on STEM.

How to apply

1 If you are interested in attending the course, please fill out the form at: www.taster.ecs.soton.ac.uk

2 We will get back to you within a week to let you know if you have a place on the course.

3 If successful, you have two weeks to register and pay (a subsidised fee of £195, which includes all accommodation, food and drink) for the course. This deadline ensures we do not hold places for students who don't end up coming - these courses are usually highly over-subscribed!

Eligibility

You must:

Be studying A-Level Maths and one of Physics, Electronics, Computing or Further Maths.

Have mostly A/A* grades at GCSE.

Currently be in year 12

Be aged 16+ (on 25 July 2016)

We don't mind if you:

Have never done any computer science, electronics or programming before. Or if you are an expert already!

Are male or female (50% of our initial allocation of places is reserved for each gender)!

Are interested in doing a degree at Southampton, or not!

Already know you want to study computer science or electronics at university, have a curious interest or have no idea!

Electronics and Computer Science
University Taster Course

July 25-29 2016

> " This gave me the most amazing University experience, and I met some amazing people along the way!"
>
> *Johanna, attended 2015 course*

Fee per student is only

£195 Including all food and accommodation

www.taster.ecs.soton.ac.uk

2016 University Taster Course

Our one-week residential course (25-29 July 2016) will enable you to experience computer science and electronic engineering, working in groups, and investigating and designing solutions to real projects in our undergraduate labs. As well as experiencing the facilities on campus, and taking part in labs and lectures, you will be living in halls and enjoying a busy programme at the University of Southampton.

Experience our fantastic undergraduate facilities
Try your hand at real electronics experiments and computer programming in our new £4M state-of-the-art teaching labs.

Learn about our teaching and research from some of our globally-renowned lecturers
Professor Mark Nixon was the first researcher to be featured on the BBC's 'Bang Goes The Theory'.

1st
Our Electrical and Electronic Engineering courses were ranked 1st in the UK (Guardian, 2015).

Meet some of our current students and recent graduates
Josh Oldfield became the seventh ECS student to be named in UKESF Scholar of the Year final in 2015.

Enjoy social events and living in a hall of residence
The course provides plenty of time to get to know other members of the group, and experience student life!

Gain hands-on experience of the differences (and similarities) between electronic engineering and computer science!

* *This course may count as a "residential" for the Duke of Edinburgh award; you should discuss this with your DofE Leader.*

Group photo on the last day of the 2015 course

What is Electronic Engineering?

Electronics is the use of electricity to communicate, compute and control the world around us – from amplifying the audio in your MP3 player, to the processor in your phone that makes billions of calculations a second, to the intelligent prosthetic arms that allow amputees to lead a normal life. As an engineering discipline, electronics is underpinned by mathematics and physics, and these are applied to designing and inventing cutting-edge products and systems.

What is Computer Science?

The practical side of computing can be seen everywhere. Getting computers to do what you want them to do requires intensive training. But computer science can be seen on a higher level, as a science of problem solving: modelling and analysing problems. Many problems in science, engineering, health care, business, and other areas can be solved effectively with computers, but finding a solution requires both computer science expertise and knowledge of the particular application domain.

Student Feedback

" Really worthwhile and helped me know that I wanted to do electronics at uni"

Megan, Wiltshire, 2014

" I'd never even really been to a lecture before, so it was good to know what I'm signing up for!"

Matt, Lincolnshire, 2014